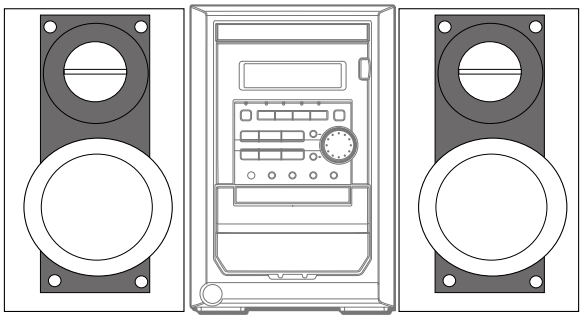
aiwa SERVICE

# XR-M100 EZ
# XR-M120 K
# XR-M121 EZ
# XR-M130 HR,HT
# XR-M150 K
# XR-M151 EZ
# XR-M152 EZ



# SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM: 2ZM-1 R8NF
BASIC CD MECHANISM: 3ZG-3 E2NF

| SYSTEM | REMOTE CONTROLLER |
|---|---|
| XR-M100 | RC-AAT11 |
| XR-M120 | |
| XR-M121 | |
| XR-M130 | |
| XR-M150 | |
| XR-M151 | |
| XR-M152 | |

aiwa

S/M Code No. 09-007-426-2R2

# SPECIFICATIONS

**<FM Tuner section>**

| | |
|---|---|
| **Tuning range** | 87.5 MHz to 108 MHz |
| **Usable sensitivity(IHF)** | 16.8 dBf<EZ,K>, 13.2 dBf<HR,HT> |
| **Antenna terminals** | 75 ohms (unbalanced) |

**<AM Tuner section>**

| | |
|---|---|
| **Tuning range** | 531 kHz to 1602 kHz (9 kHz step)<br>530 kHz to 1710 kHz (10 kHz step) |
| **Usable sensitivity** | 350 uV/m |
| **Antenna** | Loop antenna |

**<LM Tuner section>(EZ,K)**

| | |
|---|---|
| **Tuning range** | 144 kHz to 290 kHz |
| **Usable sensitivity** | 1400 uV/m |
| **Antenna** | Loop antenna |

**<Amplifier section>**

| | |
|---|---|
| **Power output<100EZ,120K,121EZ>** | Rated: 8 W +8 W<br>(16 ohms, T.H.D. 1%,1 kHz/DIN 45500)<br>Reference: 10 W + 10 W<br>(16 ohms, T.H.D. 10 %,1 kHz/DIN 45324) |
| **Power output<130HR,HT,150K,151,152EZ>** | Rated: 12 W + 12 W<br>(8 ohms, T.H.D. 1%, 1 kHz/DIN45500)<br>Reference: 15 W + 15 W<br>(8 ohms, T.H.D. 10 %, 1 kHz/DIN45324) |
| **Total harmonic distortion** | 0.07 % (7.5 W, 1 kHz, 16 ohms,<br>DIN AUDIO)<100EZ,120K,121EZ><br>0.07 % (7.5 W, 1 kHz, 8 ohms,<br>DIN AUDIO)<130HR,HT,150K,151,152EZ><br>DIN MUSIC POWER:<br>16 W + 16 W<100EZ,120K,121EZ><br>27.5 W + 27.5 W<150K,151,152EZ> |
| **Inputs** | VIDEO/AUX: 0.4 V |
| **Outputs** | SUB WOOFER: 1.0 V<br>SPEAKERS: accept speakers of<br>16 ohms or more<100EZ,120K,121EZ><br>accept speakers of 8 ohms or<br>more<130HR,HT,150K,151,152EZ><br>PHONES (stereo minijack) : accepts<br>headphones of 32 ohms or more |

**<Cassette deck section>**

| | |
|---|---|
| **Track format** | 4 tracks, 2 channels stereo |
| **Frequency response** | Normal tape: 50 Hz – 15000 Hz |
| **Signal-to-noise ratio** | 50 dB |
| **Recording system** | AC bias |
| **Heads** | Recording/Playback head x 1<br>Erase head x 1 |

**<Compact disc player section>**

| | |
|---|---|
| **Laser** | Semiconductor laser (λ =780 nm) |
| **D-A converter** | 1 bit dual |
| **Signal-to-noise ratio** | 75 dB (1 kHz, 0 dB) |
| **Harmonic distortion** | 0.1 % (1 kHz, 0 dB) |
| **Wow and flutter** | Unmeasurable |

**<Speaker system>**

| | |
|---|---|
| **Cabinet type** | 2 way, bass reflex |
| **Speaker** | Woofer:<br>120 mm (4 $^{3}/_{4}$ in) cone type<br>Tweeter:<br>20 mm ( $^{13}/_{16}$ in) ceramic type |
| **Impedance** | 16 ohms<100EZ,120K,121EZ><br>8 ohms<130HR,HT,150K,151,152EZ> |
| **Output sound pressure level** | 87 dB/W/m |
| **Dimensions (W x H x D)** | 150 x 256 x 205 mm<br>(6 x 10 $^{1}/_{8}$ x 8 $^{1}/_{8}$ in.)<100EZ><br>150 x 256 x 210 mm<br>(6 x 10 $^{1}/_{8}$ x 8 $^{3}/_{8}$ in.)<EXCEPT 100EZ> |
| **Weight** | 1.2 kg (2 lbs 10 oz)<100EZ><br>2.0 kg (4 lbs 7 oz)<EXCEPT 100EZ> |

**<General>**

| | |
|---|---|
| **Power requirements** | AC: 230 V, 50 Hz<EZ,K><br>AC: 120 V/ 220 V -240 V,<br>Switchable 50/60 Hz<HR,HT> |
| **Power consumption** | 42 W<100EZ,120K,121EZ>, 50 W<150K><br>45 W<130HR,HT,151,152EZ>, |
| **Dimensions (W x H x D)** | 168 x 256 x 255 mm<br>(6 $^{5}/_{8}$ x 10 $^{1}/_{8}$ x 10 $^{1}/_{8}$ in) |
| **Weight of main unit** | 3.5 kg (7 lbs 11 oz.) |
| **Standby power consumption** | If the power-economizing mode is<br>on: 1.0 W<br>If the power-economizing mode is<br>off: 10 W |

• Design and specifications are subject to change without notice.

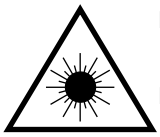
# ACCESSORIES / PACKAGE LIST

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 8A-CLK-913-010 | | IB,EZ (9L) M100 -IN<100EZ> |
| 1 | 8A-CLK-912-010 | | IB,EZ (9L) -IN<121EZ> |
| 1 | 8A-CLK-911-010 | | IB,K (E) -IN<120K> |
| 1 | 8A-CL9-908-010 | | IB,H (ECA) -IN<130HR,HT> |
| 1 | 8A-CL9-910-010 | | IB,K (E) -IN<150K> |
| 1 | 8A-CL9-911-010 | | IB,E (9L) -IN<151,152EZ> |
| 2 | 87-043-115-010 | | ANT,FEEDER FM<130HR,HT> |
| 3 | 87-A90-030-010 | | ANT,LOOP AM-NC C |
| ⚠ 4 | 87-A91-017-010 | | PLUG,CONVERSION JT-0476<130HR,HT> |
| 5 | 8A-CLB-961-010 | | RC UNIT,RC-AAT11 |
| 6 | 87-A90-118-010 | | ANT,WIRE FM(Z)<EXCEPT 130HR,HT> |

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

**WARNING!!**
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**VAROITUS!**
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

**VARNING!**
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

**CAUTION**
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

**ATTENTION**
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

**ADVARSEL**
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

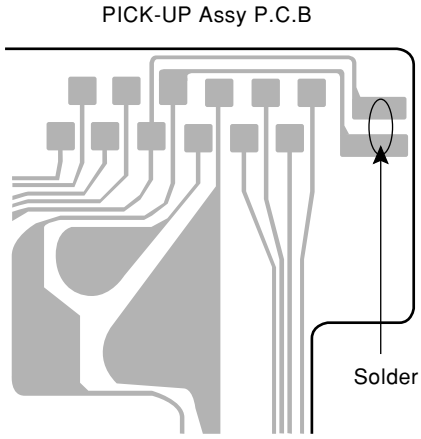
| | |
|---|---|
| CLASS 1 | LASER PRODUCT |
| KLASSE 1 | LASER PRODUKT |
| LUOKAN 1 | LASER LAITE |
| KLASS 1 | LASER APPARAT |

## Precaution to replace Optical block

## (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



# ELECTRICAL MAIN PARTS LIST

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| IC | | | |
| | 87-070-127-110 | | IC,LC72131D |
| | 87-A20-913-010 | | IC,LA1837NL |
| | 87-A20-446-010 | | C-IC,LA9241ML |
| | 87-A20-459-010 | | C-IC,LC78622ED |
| | 87-A20-157-010 | | IC,TA2092N |
| | 87-001-536-010 | | IC,NJM78M05FA |
| | 87-001-982-010 | | IC,TA7291S |
| | 8A-CL9-681-010 | | C-IC,M38B57MCH-P239FP |
| | 87-017-889-010 | | IC,NJM4558LD |
| | 87-A20-914-010 | | IC,SPS-442-1-F |
| | 87-A21-520-040 | | C-IC,M61509FP |
| | 87-020-454-010 | | IC,DN6851 |
| | 87-A20-440-040 | | C-IC,BU1920FS<121,151,152EZ> |
| TRANSISTOR | | | |
| | 87-A30-072-080 | | RT1P144C |
| | 89-327-143-080 | | 2SC2714 |
| | 87-026-463-080 | | TR,2SA933SRS |
| | 87-026-297-080 | | C-TR,DTA144TK |
| | 87-026-239-080 | | C-TR,DTC114TK |
| | 89-109-521-080 | | TR,2SA952K |
| | 89-318-155-080 | | TR,2SC1815GR |
| | 89-213-702-010 | | TR,2SB1370E |
| | 87-026-610-080 | | TR,KTC3198GR |
| | 89-333-317-080 | | TR,2SC3331T |
| | 87-A30-196-080 | | TR,2SC4115SRS |
| | 89-113-187-880 | | TR,2SA1318(T/U) |
| | 87-A30-198-080 | | TR,KTC3199GR |
| | 87-A30-197-080 | | TR,KTA1267GR |
| | 87-026-219-080 | | TR,DTA144ES |
| | 87-A30-127-010 | | TR,2SD2478 |
| | 87-A30-126-010 | | TR,2SB1616 |
| | 89-406-555-080 | | TR,2SD655E |
| | 87-026-609-080 | | TR,KTA1266GR |
| | 87-026-245-080 | | TR,DTC114ES |
| | 89-112-965-080 | | TR,2SA1296GR |
| | 89-327-125-080 | | C-TR,2SC2712GR |
| | 87-A30-090-080 | | FET,2SK2541 |
| | 89-111-624-080 | | C-TR,2SA1162Y |
| | 87-A30-076-080 | | C-TR,2SC3052F |
| | 87-026-235-080 | | C-TR,DTC114EK |
| | 87-A30-074-080 | | C-TR,RT1P 141C |
| | 87-A30-087-080 | | C-FET,2SK2158 |
| | 87-026-502-080 | | TR,DTC144TS |
| | 87-026-295-080 | | C-TR,DTC144TK |
| | 87-A30-234-080 | | TR,CSC4115BC<EZ,K> |
| | 89-505-434-540 | | C-FET,2SK543-TB(4/5)<EZ,K> |
| | 87-A30-086-070 | | C-TR,CSD1306E<EZ,K> |
| DIODE | | | |
| | 87-A40-454-080 | | DIODE,1N5393 GW |
| | 87-020-465-080 | | DIODE,1SS133 |
| | 87-A40-553-080 | | DIODE,1N4003 LES |
| | 87-A40-781-080 | | ZENER,UZ36BSA |
| | 87-A40-764-080 | | ZENER,UZ10BSC |
| | 87-001-731-080 | | ZENER,HZS6C2L |
| | 87-020-027-080 | | C-DIODE,1SS184 |
| | 87-A40-739-080 | | ZENER,UZ2.7BSA |
| | 87-A40-270-080 | | C-DIODE,MC2838 |
| MAIN C.B | | | |
| C101 | 87-016-495-000 | | CAP,E 3300-25 M SMG |
| C102 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C104 | 87-A10-011-090 | | CAP,E 2200-25 SMG |
| C105 | 87-012-140-080 | | C-CAP,S 470P-50 J CH |
| C106 | 87-010-408-080 | | CAP,E 47-50 M 11L SME |
| C107 | 87-010-384-080 | | CAP,E 100-25 M 11L SME |
| C108 | 87-010-381-080 | | CAP,E 330-16 M SME |
| C109 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C110 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C111 | 87-010-247-080 | | CAP,E 100-50 M SME |
| C112 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C113 | 87-010-403-080 | | CAP,E 3.3-50 M 11L SME |
| C114 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C115 | 87-A11-007-080 | | CAP,M 0.047-50 J DE |
| C116 | 87-A11-007-080 | | CAP,M 0.047-50 J DE |
| C122 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C123 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C131 | 87-012-368-080 | | C-CAP,S 0.1-50 Z F |
| C132 | 87-012-368-080 | | C-CAP,S 0.1-50 Z F |
| C151 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C200 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C201 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C207 | 87-010-546-080 | | CAP,E 0.33-50 M 11L SME |
| C208 | 87-010-546-080 | | CAP,E 0.33-50 M 11L SME |
| C209 | 87-010-186-080 | | C-CAP,S 4700P-50 K B C2012 |
| C210 | 87-010-186-080 | | C-CAP,S 4700P-50 K B C2012 |
| C211 | 87-010-403-080 | | CAP,E 3.3-50 M 11L SME |
| C212 | 87-010-403-080 | | CAP,E 3.3-50 M 11L SME |
| C213 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C214 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C217 | 87-010-993-080 | | C-CAP,S 0.056-25 K B MK212 |
| C218 | 87-010-993-080 | | C-CAP,S 0.056-25 K B MK212 |
| C219 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C220 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C227 | 87-010-260-080 | | CAP,E 47-25 M 11L SME |
| C229 | 87-012-156-080 | | C-CAP,S 220P-50 J CH GRM |
| C230 | 87-012-156-080 | | C-CAP,S 220P-50 J CH GRM |
| C261 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C273 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C303 | 87-010-177-080 | | C-CAP,S 820P-50 J SL C2012 |
| C304 | 87-010-177-080 | | C-CAP,S 820P-50 J SL C2012 |
| C307 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C308 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C311 | 87-010-195-080 | | C-CAP,S 0.068-25 Z F C2012 |
| C312 | 87-010-195-080 | | C-CAP,S 0.068-25 Z F C2012 |
| C313 | 87-010-184-080 | | C-CAP,S 3300P-50 K B C2012 |
| C314 | 87-010-184-080 | | C-CAP,S 3300P-50 K B C2012 |
| C315 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C317 | 87-010-546-080 | | CAP,E 0.33-50 M 11L SME |
| C318 | 87-010-546-080 | | CAP,E 0.33-50 M 11L SME |
| C320 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C321 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C340 | 87-012-156-080 | | C-CAP,S 220P-50 J CH GRM |
| C361 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C362 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C401 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C402 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C403 | 87-010-321-080 | | C-CAP,S 82P-50 J CH |
| C404 | 87-010-321-080 | | C-CAP,S 82P-50 J CH |
| C405 | 87-010-188-080 | | C-CAP,S 6800P-50 K B C2012 |
| C406 | 87-010-188-080 | | C-CAP,S 6800P-50 K B C2012 |
| C407 | 87-010-426-080 | | C-CAP,S 0.012-25 K B |
| C408 | 87-010-426-080 | | C-CAP,S 0.012-25 K B |
| C451 | 87-010-198-080 | | C-CAP,S 0.022-25 K B C2012 |
| C452 | 87-010-382-080 | | CAP,E 22-25 M 11L SME |
| C453 | 87-010-183-080 | | C-CAP,S 2700P-50 K B GRM |
| C454 | 87-010-183-080 | | C-CAP,S 2700P-50 K B GRM |
| C455 | 87-010-183-080 | | C-CAP,S 2700P-50 K B GRM |
| C456 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C457 | 87-A10-772-080 | | CAP,M 5600P-50 J |
| C458 | 87-010-178-080 | | C-CAP,S 1000P-50 K B C2012 |
| C459 | 87-010-175-080 | | C-CAP,S 560P-50 J SL |
| C461 | 87-012-158-080 | | C-CAP,S 390P-50 J CH GRM |
| C462 | 87-012-158-080 | | C-CAP,S 390P-50 J CH GRM |
| C601 | 87-010-180-080 | | C-CAP,S 1500P-50 K B C2012 |

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C602 | 87-010-180-080 | | C-CAP,S 1500P-50 K B C2012 |
| C603 | 87-010-322-080 | | C-CAP,S 100P-50 J CH GRM |
| C609 | 87-012-287-080 | | C-CAP,U 0.015-25 Z F |
| C610 | 87-010-213-080 | | C-CAP,S 0.015-25 K B GRM |
| C611 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |
| C612 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |
| C613 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |
| C614 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |
| C615 | 87-010-154-080 | | C-CAP,S 10P-50 D CH GRM |
| C616 | 87-010-408-080 | | CAP,E 47-50 M 11L SME |
| C617 | 87-010-408-080 | | CAP,E 47-50 M 11L SME |
| C619 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C620 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C627 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C628 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C635 | 87-015-785-080 | | C-CAP, 0.1-25 Z F C3216 |
| C663 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C697 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C698 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C901 | 87-A10-207-080 | | CAP,TC U 0.01-50 K B UP050 |
| CN202 | 87-099-719-010 | | CONN,30P H BLK TYK-B(X) |
| CON351 | 88-CL4-701-010 | | CONN ASSY,7P RPEH |
| CN351 | 87-A60-624-010 | | CONN,7P V 2MM JMT |
| CN702 | 87-099-570-010 | | CONN,13P V<EXCEPT 121,151,152EZ> |
| CN702 | 87-A60-189-010 | | CONN,16P V<121,151,152EZ> |
| J231 | 87-A60-420-010 | | JACK,3.5 ST (MSC) |
| J241 | 87-A60-217-010 | | TERMINAL,SPKR 4P |
| J601 | 87-A60-881-010 | | JACK,PIN 2P MSP 242V05 PBSN |
| J603 | 87-099-801-010 | | JACK,PIN 1P BLK W/O SW |
| JW50 | 87-A90-896-080 | | F-BEAD, 035600STY7<K,EZ> |
| JW69 | 87-A90-896-080 | | F-BEAD, 035600STY7<K,EZ> |
| JW568 | 87-A90-896-080 | | F-BEAD, 035600STY7<K,EZ> |
| JW569 | 87-A90-896-080 | | F-BEAD, 035600STY7<K,EZ> |
| L096 | 87-003-097-080 | | COIL,1.0UH K LAL02<U> |
| L201 | 87-005-366-010 | | COIL,1UH K |
| L202 | 87-005-366-010 | | COIL,1UH K |
| L451 | 87-007-342-010 | | COIL,OSC 85KHZ BIAS |
| PN101 | 87-A90-510-010 | | HLDR,WIRE 2.5-9P |
| ⚠ PR201 | 87-A90-473-080 | | PROTECTOR,3.5A 491SERIES 60V |
| ⚠ PR202 | 87-A90-473-080 | | PROTECTOR,3.5A 491SERIES 60V |
| R223 | 87-A00-258-080 | | RES,M/F 0.22-1W J |
| R224 | 87-A00-258-080 | | RES,M/F 0.22-1W J |
| R249 | 87-A00-258-080 | | RES,M/F 0.22-1W J |
| R250 | 87-A00-258-080 | | RES,M/F 0.22-1W J |
| WH101 | 8A-CL9-671-010 | | F-CABLE,9P 2.5 |
| FRONT C.B | | | |
| C300 | 87-012-153-080 | | C-CAP,S 120P-50 J CH GRM |
| C301 | 87-012-145-080 | | C-CAP,S 270P-50 J CH GRM |
| C302 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C304 | 87-010-405-040 | | CAP,E 10-50 M 11L SME |
| C305 | 87-A10-797-040 | | CAP,E 47-35 M 5L SRM |
| C307 | 87-010-421-040 | | CAP,E 4.7-50 M 5L SRE |
| C308 | 87-010-421-040 | | CAP,E 4.7-50 M 5L SRE |
| C309 | 87-010-787-080 | | C-CAP,U 0.022-25 K B |
| C313 | 87-010-112-040 | | CAP,E 100-16 M 11L SME |
| C314 | 87-A10-189-040 | | CAP,E 220-10 M 5L |
| C315 | 87-010-198-080 | | C-CAP,S 0.022-25 K B C2012 |
| C316 | 87-012-286-080 | | C-CAP,U 0.01-25 K B |
| C317 | 87-010-787-080 | | C-CAP,U 0.022-25 K B |
| C318 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C319 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C320 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C321 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C322 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C323 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C324 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C325 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C326 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C327 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C328 | 87-010-320-080 | | C-CAP,S 68P-50 J CH GRM |
| C329 | 87-010-198-080 | | C-CAP,S 0.022-25 K B C2012 |
| C330 | 87-010-318-080 | | C-CAP,S 47P-50 J CH GRM |
| C331 | 87-010-312-080 | | C-CAP,S 15P-50 J CH GRM |
| C333 | 87-010-401-040 | | CAP,E 1-50 M 11L SME |
| C335 | 87-010-316-080 | | C-CAP,S 33P-50 J CH GRM |
| C338 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C339 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C340 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C341 | 87-010-263-040 | | CAP,E 100-10 M 11L SME |
| C352 | 87-010-194-080 | | C-CAP,S 0.047-25 Z F |
| C395 | 87-012-154-080 | | C-CAP,S 150P-50 J CH GRM |
| C397 | 87-012-154-080 | | C-CAP,S 150P-50 J CH GRM |
| C399 | 87-010-314-080 | | C-CAP,S 22P-50 J CH GRM |
| C400 | 87-012-154-080 | | C-CAP,S 150P-50 J CH GRM |
| C420 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C421 | 87-010-318-080 | | C-CAP,S 47P-50 J CH GRM |
| C422 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C423 | 87-010-403-040 | | CAP,E 3.3-50 M 11L SME |
| CN004 | 87-099-032-010 | | CONN,15P H BLK 6216 |
| CN301 | 87-099-720-010 | | CONN,30P BLK TYK-B(P) |
| CN302 | 87-CL4-704-010 | | CONN ASSY,9P DECK |
| FL301 | 8A-CL9-682-010 | | FL,11-BT-179GNK |
| JW405 | 87-A90-896-080 | | F-BEAD, 035600STY7 |
| JW472 | 87-A90-896-080 | | F-BEAD, 035600STY7 |
| LED301 | 87-A40-229-040 | | LED,SLR-342VR TB7 RED |
| LED302 | 87-A40-619-040 | | LED,SLR-56PT-T31-W GRN |
| LED303 | 87-A40-619-040 | | LED,SLR-56PT-T31-W GRN |
| LED304 | 87-A40-619-040 | | LED,SLR-56PT-T31-W GRN |
| LED305 | 87-A40-619-040 | | LED,SLR-56PT-T31-W GRN |
| ⚠ PR301 | 87-026-689-080 | | PROTECTOR,1A 491SERIES 60V |
| S301 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S302 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S303 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S304 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S305 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S306 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S307 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S308 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S309 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S310 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S311 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S312 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S313 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S314 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S315 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S316 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S317 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S318 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S320 | 87-A90-095-080 | | SW,TACT EVQ11G04M |
| S351 | 87-A91-690-010 | | SW,RTRY JOG RE0121PVB25FINB |
| X301 | 87-030-375-080 | | VIB,CER 4.194MHZ CSA MG200 |
| CD C.B | | | |
| C001 | 87-010-403-080 | | CAP,E 3.3-50 M 11L SME |
| C002 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C003 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C004 | 87-010-248-080 | | CAP,E 220-10 M 11L SME |
| C005 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C006 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C007 | 87-012-349-080 | | C-CAP,S 1000P-50 J CH GRM |
| C008 | 87-010-198-080 | | C-CAP,S 0.022-25 K B C2012 |
| C009 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C010 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C012 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C013 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C014 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C016 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C017 | 87-012-349-080 | | C-CAP,S 1000P-50 J CH GRM |
| C018 | 87-010-213-080 | | C-CAP,S 0.015-25 K B GRM |
| C020 | 87-010-193-080 | | C-CAP,S 0.033-25 Z F C2012 |
| C021 | 87-A10-306-080 | | CAP,M 0.082-50 J |
| C023 | 87-010-992-080 | | C-CAP,S 0.047-25 K B MK212 |
| C029 | 87-010-186-080 | | C-CAP,S 4700P-50 K B C2012 |
| C030 | 87-012-156-080 | | C-CAP,S 220P-50 J CH GRM |
| C031 | 87-010-545-080 | | CAP,E 0.22-50 M 11L SME |
| C032 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C033 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| C034 | 87-010-182-080 | | C-CAP,S 2200P-50 K B C2012 |
| C035 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C036 | 87-010-374-080 | | CAP,E 47-10 M 11L SME |
| C037 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C038 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C039 | 87-012-349-080 | | C-CAP,S 1000P-50 J CH GRM |
| C040 | 87-010-148-080 | | C-CAP,S 4P-50 C CH GRM |
| C041 | 87-A10-294-080 | | CAP,M 8200P-50 J |
| C042 | 87-010-313-080 | | C-CAP,S 18P-50 J CH GRM |
| C045 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C046 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C047 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C048 | 87-010-315-080 | | C-CAP,S 27P-50 J CH GRM |
| C050 | 87-012-140-080 | | C-CAP,S 470P-50 J CH |
| C051 | 87-010-994-080 | | C-CAP,S 680P-50 J CH |
| C057 | 87-010-316-080 | | C-CAP,S 33P-50 J CH GRM |
| C058 | 87-010-316-080 | | C-CAP,S 33P-50 J CH GRM |
| C059 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C060 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C061 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C062 | 87-010-370-080 | | CAP,E 330-6.3 M SME |
| C065 | 87-010-404-080 | | CAP,E 4.7-50 M 11L SME |
| C066 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C067 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C075 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C076 | 87-A10-102-080 | | CAP,E 1000-10 REA |
| C077 | 87-010-263-080 | | CAP,E 100-10 M 11L SME |
| C078 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C079 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C080 | 87-010-112-080 | | CAP,E 100-16 M 11L SME |
| C081 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C082 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C083 | 87-010-181-080 | | C-CAP,S 1800P-50 K B GRM |
| C084 | 87-010-181-080 | | C-CAP,S 1800P-50 K B GRM |
| C090 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C091 | 87-010-404-080 | | CAP,E 4.7-50 M 11L SME |
| C092 | 87-010-387-080 | | CAP,E 470-25 M SME |
| C093 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C094 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C095 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C096 | 87-010-221-080 | | CAP,E 470-10 M SME |
| C097 | 87-010-197-080 | | C-CAP,S 0.01-25 K B C2012 |
| C098 | 87-012-154-080 | | C-CAP,S 150P-50 J CH GRM |
| C104 | 87-010-322-080 | | C-CAP,S 100P-50 J CH GRM |
| C105 | 87-010-322-080 | | C-CAP,S 100P-50 J CH GRM |
| C110 | 87-010-196-080 | | C-CAP,S 0.1-25 Z F C2012 |
| C162 | 87-010-178-080 | | C-CAP,S 1000P-50 K B C2012 |
| C902 | 87-018-119-080 | | CAP,TC U 100P-50 K B UP050 |
| C903 | 87-018-119-080 | | CAP,TC U 100P-50 K B UP050 |
| CN001 | 87-A60-424-010 | | CONN,16P V TOC-B |
| CN003 | 87-A60-131-010 | | CONN,6P V FE |
| CN004 | 87-099-032-010 | | CONN,15P H BLK 6216 |
| CN006 | 87-A60-153-010 | | CONN,5P H FE |
| FFC001 | 88-CL4-704-010 | | FF-CABLE, 16P 1.0 |
| FFC003 | 88-906-131-110 | | FF-CABLE,6P 1.25 |
| FFC004 | 88-915-231-110 | | FF-CABLE, 15P 1.25 230MM |
| FFC006 | 88-905-231-110 | | FF-CABLE, 5P 1.25 230MM |
| JR161 | 83-XM1-617-080 | | C-COIL,BK2125HM601 |
| L001 | 87-003-102-080 | | COIL,10UH J LAL02 |
| R070 | 87-029-124-090 | | RES,FUSE 2.2-1/4W J |
| R073 | 87-029-361-090 | | RES,FUSE 3.3-1/2W J |
| X001 | 87-A70-046-010 | | VIB,XTAL 16.934MHZ |

PT C.B

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C101 | 87-010-387-080 | | CAP,E 470-25 M SME |
| CN101 | 87-A61-110-010 | | CONN,9P V TID-A |
| ⚠ F101 | 87-035-454-010 | | FUSE,1.6A 250V T 218<HR,HT> |
| ⚠ FC101 | 87-033-213-080 | | FUSE CLAMP,PFC5000<HR,HT> |
| ⚠ FC102 | 87-033-213-080 | | FUSE CLAMP,PFC5000<HR,HT> |
| ⚠ PR101 | 87-026-690-080 | | FUSE,5A 125V 251<U> |
| ⚠ PR101 | 87-026-681-080 | | PROTECTOR,5A 491SERIES 60V |
| ⚠ PR102 | 87-026-681-080 | | PROTECTOR,5A 491SERIES 60V |
| ⚠ PT101 | 8A-CL9-644-010 | | PT,LH<HR,HT> |
| ⚠ PT101 | 8A-CL9-643-010 | | PT,EZ<EZ,K> |
| ⚠ PT102 | 8A-NF8-673-010 | | PT,SUB ANF-8 (H)KAMI<HR,HT> |
| ⚠ PT102 | 8A-NF8-662-010 | | PT,SUB ANF-8 (E)<EZ,K> |
| ⚠ RY102 | 87-A91-281-010 | | RELAY,AC DC12V OSA-SS-212DM5 |
| ⚠ SW101 | 87-A90-234-010 | | SW,SL 1-2-2 SWS2201<HR,HT> |
| ⚠ T101 | 87-A60-317-010 | | TERMINAL, 1P MSC |
| ⚠ T102 | 87-A60-317-010 | | TERMINAL, 1P MSC |

TUNER C.B<100EZ,120,150K>

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C701 | 87-010-381-080 | | CAP,ELECT 330-16V |
| C702 | 87-010-404-080 | | CAP,ELECT 4.7-50V |
| C703 | 87-012-286-080 | | CAP,U 0.01-25 |
| C704 | 87-012-286-080 | | CAP,U 0.01-25 |
| C709 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C711 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C712 | 87-010-831-080 | | C-CAP,U,0.1-16F |
| C713 | 87-012-286-080 | | CAP,U 0.01-25 |
| C714 | 87-012-286-080 | | CAP,U 0.01-25 |
| C715 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C717 | 87-012-286-080 | | CAP,U 0.01-25 |
| C719 | 87-012-286-080 | | CAP,U 0.01-25 |
| C720 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C721 | 87-012-176-080 | | CAP,15P |
| C722 | 87-012-176-080 | | CAP,15P |
| C723 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C725 | 87-018-131-080 | | CAP,TC U 1000P-50 KB |
| C727 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C728 | 87-010-248-080 | | CAP,ELECT 220-10V |
| C729 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C731 | 87-012-286-080 | | CAP,U 0.01-25 |
| C733 | 87-012-280-080 | | C-CAP,U 3300P-50 KB |
| C734 | 87-012-280-080 | | C-CAP,U 3300P-50 KB |
| C752 | 87-012-282-080 | | C-CAP,U 4700P-50 KB |
| C753 | 87-012-195-080 | | C-CAP,U 100P-50 J CH |
| C755 | 87-012-286-080 | | CAP,U 0.01-25 |
| C756 | 87-012-286-080 | | CAP,U 0.01-25 |
| C757 | 87-012-188-080 | | C-CAP,U 47P-50 CH |
| C758 | 87-012-167-080 | | C-CAP,U 5P-50 CH |
| C761 | 87-010-196-080 | | C-CAP,S 0.1-25 ZF |
| C762 | 87-012-286-080 | | CAP,U 0.01-25 |
| C763 | 87-010-829-080 | | CAP,U 0.047-16 |
| C765 | 87-012-286-080 | | CAP,U 0.01-25 |
| C766 | 87-010-197-080 | | C-CAP,S 0.01-25 KB |
| C768 | 87-012-286-080 | | CAP,U 0.01-25 |
| C769 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C770 | 87-010-829-080 | | CAP,U 0.047-16 |
| C771 | 87-010-383-080 | | CAP,ELECT 33-25V |
| C772 | 87-010-829-080 | | CAP,U 0.047-16 |
| C773 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C774 | 87-010-263-080 | | CAP,ELECT 100-10V |
| C775 | 87-010-404-080 | | CAP,ELECT 4.7-50V |
| C776 | 87-012-286-080 | | CAP,U 0.01-25 |
| C777 | 87-010-493-080 | | CAP,E 0.47-50 M 5L SRE |
| C778 | 87-010-401-080 | | CAP,ELECT 1-50V |

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C779 | 87-010-401-080 | | CAP,ELECT 1-50V |
| C780 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C781 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C782 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C783 | 87-012-286-080 | | CAP,U 0.01-25 |
| C784 | 87-012-286-080 | | CAP,U 0.01-25 |
| C785 | 87-010-402-080 | | CAP, ELECT 2.2-50V |
| C786 | 87-010-402-080 | | CAP,ELECT 2.2-50V |
| C787 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C788 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C789 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C790 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C791 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C793 | 87-012-273-080 | | C-CAP,U 820P-50 B |
| C794 | 87-010-406-080 | | CAP,ELECT 22-50 |
| C795 | 87-010-596-080 | | CAP,S 0.047-16 |
| C796 | 87-010-403-080 | | CAP,ELECT 3.3-50V |
| C797 | 87-012-276-080 | | C-CAP,U 1500P-50 KB |
| C798 | 87-012-276-080 | | C-CAP,U 1500P-50 KB |
| C799 | 87-010-829-080 | | CAP,U 0.047-16 |
| C812 | 87-012-286-080 | | CAP,U 0.01-25 |
| C814 | 87-012-286-080 | | CAP,U 0.01-25 |
| C820 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C821 | 87-012-286-080 | | CAP,U 0.01-25 |
| C822 | 87-012-286-080 | | CAP,U 0.01-25 |
| C823 | 87-012-286-080 | | CAP,U 0.01-25 |
| C828 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C829 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C940 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C942 | 87-012-168-080 | | C-CAP,U 6P-50 D CH |
| C947 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C949 | 87-A10-039-080 | | C-CAP,U 470P-50 J CH |
| C952 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C958 | 87-010-197-080 | | C-CAP,S 0.01-25 KB |
| C959 | 87-010-831-080 | | C-CAP,U 0.1-16 ZF |
| C960 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C962 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| CF801 | 87-008-423-010 | | FLTR,CF SFE10.7MS3G-A |
| CF802 | 82-785-747-010 | | CF,MS2 GHY R |
| CN701 | 87-A60-700-010 | | CONN,13P H GRY TUC-P13X-C1 |
| FFE801 | A8-6ZA-19H-030 | | 6ZA-1 FEMENM |
| J801 | 87-033-241-010 | | TERMINAL,ANT 2P AJ-2039 |
| L771 | 87-A50-266-010 | | COIL,FM DET-2N(TOK) |
| L772 | 87-A91-110-010 | | FLTR,PCFJZH-450(TOK) |
| L781 | 87-005-847-080 | | COIL,2.2UH(CECS) |
| L791 | 87-A50-027-010 | | COIL,1 POLE MPX(TOK) |
| L792 | 87-A50-027-010 | | COIL,1 POLE MPX(TOK) |
| L832 | 87-005-847-080 | | COIL,2.2UH K CECS |
| L941 | 87-A50-020-010 | | COIL,ANT LW(COI)252KHZ |
| L942 | 87-A50-019-010 | | COIL,OSC LW(COI) 856KHZ |
| L981 | 8Z-ZA1-665-010 | | COIL,AM PACK 2(TOK) |
| TC942 | 87-A91-658-010 | | TRIMMER,30P 4.0X4.5 ECRL |
| X721 | 87-A70-061-010 | | VIB,XTAL 4.500MHZ CSA-309 |

TUNER C.B<121,151,152EZ>

| | | | |
|---|---|---|---|
| C701 | 87-010-381-080 | | CAP,ELECT 330-16V |
| C702 | 87-010-404-080 | | CAP,ELECT 4.7-50V |
| C703 | 87-012-286-080 | | CAP,U 0.01-25 |
| C704 | 87-012-286-080 | | CAP,U 0.01-25 |
| C709 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C711 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C712 | 87-010-831-080 | | C-CAP,U,0.1-16F |
| C713 | 87-012-286-080 | | CAP,U 0.01-25 |
| C714 | 87-012-286-080 | | CAP,U 0.01-25 |
| C715 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C717 | 87-012-286-080 | | CAP,U 0.01-25 |
| C719 | 87-012-286-080 | | CAP,U 0.01-25 |
| C720 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C721 | 87-012-176-080 | | CAP,15P |
| C722 | 87-012-176-080 | | CAP,15P |
| C723 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C725 | 87-018-131-080 | | CAP,TC U 1000P-50 KB |
| C727 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C728 | 87-010-248-080 | | CAP,ELECT 220-10V |
| C729 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C731 | 87-012-286-080 | | CAP,U 0.01-25 |
| C733 | 87-012-280-080 | | C-CAP,U 3300P-50 KB |
| C734 | 87-012-280-080 | | C-CAP,U 3300P-50 KB |
| C752 | 87-012-282-080 | | C-CAP,U 4700P-50 KB |
| C753 | 87-012-195-080 | | C-CAP,U 100P-50 J CH |
| C755 | 87-012-286-080 | | CAP,U 0.01-25 |
| C756 | 87-012-286-080 | | CAP,U 0.01-25 |
| C757 | 87-012-188-080 | | C-CAP,U 47P-50 CH |
| C758 | 87-012-167-080 | | C-CAP,U 5P-50 CH |
| C761 | 87-010-196-080 | | C-CAP,S 0.1-25 ZF |
| C762 | 87-012-286-080 | | CAP,U 0.01-25 |
| C763 | 87-010-829-080 | | CAP,U 0.047-16 |
| C765 | 87-012-286-080 | | CAP,U 0.01-25 |
| C766 | 87-010-197-080 | | C-CAP,S 0.01-25 KB |
| C768 | 87-012-286-080 | | CAP,U 0.01-25 |
| C769 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C770 | 87-010-829-080 | | CAP,U 0.047-16 |
| C771 | 87-010-383-080 | | CAP,ELECT 33-25V |
| C772 | 87-010-829-080 | | CAP,U 0.047-16 |
| C773 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C774 | 87-010-263-080 | | CAP,ELECT 100-10V |
| C775 | 87-010-404-080 | | CAP,ELECT 4.7-50V |
| C776 | 87-012-286-080 | | CAP,U 0.01-25 |
| C777 | 87-010-493-080 | | CAP,E 0.47-50 M 5L SRE |
| C778 | 87-010-401-080 | | CAP,ELECT 1-50V |
| C779 | 87-010-401-080 | | CAP,ELECT 1-50V |
| C780 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C781 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C782 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C783 | 87-012-286-080 | | CAP,U 0.01-25 |
| C784 | 87-012-286-080 | | CAP,U 0.01-25 |
| C785 | 87-010-401-080 | | CAP,ELECT 1-50V |
| C786 | 87-010-401-080 | | CAP,ELECT 1-50V |
| C787 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C788 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C789 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C790 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C791 | 87-010-405-080 | | CAP,ELECT 10-50V |
| C793 | 87-012-273-080 | | C-CAP,U 820P-50 B |
| C794 | 87-010-406-080 | | CAP,ELECT 22-50 |
| C795 | 87-010-596-080 | | CAP,S 0.047-16 |
| C796 | 87-010-403-080 | | CAP,ELECT 3.3-50V |
| C797 | 87-012-276-080 | | CAP,CHIP SS 1500 PBK |
| C798 | 87-012-276-080 | | CAP,CHIP SS 1500 PBK |
| C799 | 87-010-829-080 | | CAP,U 0.047-16 |
| C812 | 87-012-286-080 | | CAP,U 0.01-25 |
| C814 | 87-012-286-080 | | CAP,U 0.01-25 |
| C820 | 87-010-260-080 | | CAP,ELECT 47-25V |
| C821 | 87-012-286-080 | | CAP,U 0.01-25 |
| C822 | 87-012-286-080 | | CAP,U 0.01-25 |
| C823 | 87-012-286-080 | | CAP,U 0.01-25 |
| C828 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C829 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C859 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C861 | 87-012-199-080 | | C-CAP,U 220P-50 J CH |
| C862 | 87-012-199-080 | | C-CAP,U 220P-50 J CH |
| C863 | 87-012-270-080 | | C-CAP,U 470P-50 KB |
| C864 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C865 | 87-010-196-080 | | C-CAP,S 0.1-25 ZF |
| C866 | 87-010-405-080 | | CAP,E 10-50 M 11L SME |
| C867 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C868 | 87-012-184-080 | | C-CAP,U 33P-50 J CH |
| C869 | 87-012-180-080 | | C-CAP,U 22P-50 J CH |
| C940 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C942 | 87-012-172-080 | | C-CAP,U 10P-50 D CH |
| C947 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C949 | 87-A10-039-080 | | C-CAP,U 470P-50 J CH |
| C952 | 87-012-286-080 | | C-CAP,U 0.01-25 KB |
| C958 | 87-010-197-080 | | C-CAP,S 0.01-25 KB |
| C959 | 87-010-831-080 | | C-CAP,U 0.1-16 ZF |
| C960 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C962 | 87-010-401-080 | | CAP,E 1-50 M 11L SME |
| CF801 | 87-008-423-010 | | FLTR,CF SFE10.7MS3G-A |
| CF802 | 82-785-747-010 | | CF,MS2 GHY R |
| CN701 | 87-A60-650-010 | | CONN,16P H GRY TUC-P16X-C1 |
| FFE801 | A8-6ZA-191-130 | | 6ZA-1 FEENM |
| J801 | 87-033-241-010 | | TERMINAL,ANT 2P AJ-2039 |
| L771 | 87-A50-266-010 | | COIL,FM DET-2N(TOK) |
| L772 | 87-A90-733-010 | | FLTR,PCFAZH-450(TOK) |
| L781 | 87-005-847-080 | | COIL,2.2UH (CECS) |
| L791 | 87-A50-027-010 | | COIL,1 POLE MPX(TOK) |
| L792 | 87-A50-027-010 | | COIL,1 POLE MPX(TOK) |
| L832 | 87-005-847-080 | | COIL,2.2UH K CECS |
| L851 | 87-005-847-080 | | COIL,2.2UH K CECS |
| L941 | 87-A50-020-010 | | COIL,ANT LW(COI)252KHZ |
| L942 | 87-A50-019-010 | | COIL,OSC LW(COI) 856KHZ |
| L981 | 87-NF4-651-110 | | COIL,AM PACK 2N(TOM) |
| TC942 | 87-011-164-010 | | TRIMMER,CER 30P 4.5X3.9 VCT31 |
| X721 | 87-A70-061-010 | | VIB,XTAL 4.500MHZ CSA-309 |
| X851 | 87-A70-091-010 | | VIB,XTAL 4.332MHZ CSA-309 |

TUNER C.B<HR,HT>

| | | | |
|---|---|---|---|
| C701 | 87-010-381-080 | | CAP, ELECT 330-16V |
| C702 | 87-010-404-080 | | CAP, ELECT 4.7-50V |
| C703 | 87-012-286-080 | | CAP, U 0.01-25 |
| C704 | 87-012-286-080 | | CAP, U 0.01-25 |
| C705 | 87-A10-592-080 | | C-CAP,S 0.015-50 J B |
| C706 | 87-A10-592-080 | | C-CAP,S 0.015-50 J B |
| C709 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C711 | 87-010-260-080 | | CAP, ELECT 47-25V |
| C712 | 87-010-831-080 | | C-CAP,U,0.1-16F |
| C714 | 87-012-286-080 | | CAP, U 0.01-25 |
| C717 | 87-012-286-080 | | CAP, U 0.01-25 |
| C719 | 87-012-286-080 | | CAP, U 0.01-25 |
| C720 | 87-012-195-080 | | C-CAP,U 100P-50CH |
| C721 | 87-012-176-080 | | CAP 15P |
| C722 | 87-012-176-080 | | CAP 15P |
| C723 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C725 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C727 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C728 | 87-010-248-080 | | CAP, ELECT 220-10V |
| C729 | 87-012-274-080 | | CHIP CAP,U 1000P-50B |
| C731 | 87-012-286-080 | | CAP, U 0.01-25 |
| C733 | 87-010-987-080 | | C-CAP,S 1500P-50 CH |
| C734 | 87-010-987-080 | | C-CAP,S 1500P-50 CH |
| C735 | 87-010-987-080 | | C-CAP,S 1500P-50 CH |
| C736 | 87-010-987-080 | | C-CAP,S 1500P-50 CH |
| C737 | 87-A10-592-080 | | C-CAP,S 0.015-50 J B |
| C738 | 87-A10-592-080 | | C-CAP,S 0.015-50 J B |
| C751 | 87-010-220-080 | | C-CAP,S 0.018-25 KB |
| C752 | 87-010-220-080 | | C-CAP,S 0.018-25 KB |
| C756 | 87-012-286-080 | | CAP, U 0.01-25 |
| C757 | 87-012-188-080 | | C-CAP,U 47P-50 CH |
| C758 | 87-012-167-080 | | C-CAP,U 5P-50 CH |
| C763 | 87-010-829-080 | | CAP, U 0.047-16 |
| C764 | 87-012-337-080 | | C-CAP,U 56P-50 CH |
| C765 | 87-012-286-080 | | CAP, U 0.01-25 |
| C768 | 87-012-286-080 | | CAP, U 0.01-25 |
| C769 | 87-010-260-080 | | CAP, ELECT 47-25V |
| C770 | 87-010-829-080 | | CAP, U 0.047-16 |
| C771 | 87-010-383-080 | | CAP, ELECT 33-25V |
| C772 | 87-010-829-080 | | CAP, U 0.047-16 |
| C773 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C774 | 87-010-263-080 | | CAP, ELECT 100-10V |
| C775 | 87-010-404-080 | | CAP, ELECT 4.7-50V |
| C776 | 87-012-286-080 | | CAP, U 0.01-25 |
| C777 | 87-010-400-080 | | CAP, ELECT 0.47-50V |
| C778 | 87-010-401-080 | | CAP, ELECT 1-50V |
| C779 | 87-010-401-080 | | CAP, ELECT 1-50V |
| C780 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C781 | 87-010-405-080 | | CAP, ELECT 10-50V |
| C782 | 87-010-405-080 | | CAP, ELECT 10-50V |
| C783 | 87-012-286-080 | | CAP, U 0.01-25 |
| C784 | 87-012-286-080 | | CAP, U 0.01-25 |
| C785 | 87-010-401-080 | | CAP, ELECT 1-50V |
| C786 | 87-010-401-080 | | CAP, ELECT 1-50V |
| C789 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C790 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C791 | 87-010-405-080 | | CAP, ELECT 10-50V |
| C793 | 87-012-273-080 | | C-CAP,U 820P-50 B |
| C794 | 87-010-406-080 | | CAP, ELECT 22-50 |
| C795 | 87-010-596-080 | | CAP, S 0.047-16 |
| C796 | 87-010-403-080 | | CAP, ELECT 3.3-50V |
| C799 | 87-010-829-080 | | CAP, U 0.047-16 |
| C812 | 87-012-286-080 | | CAP, U 0.01-25 |
| C820 | 87-010-260-080 | | CAP, ELECT 47-25V |
| C821 | 87-012-286-080 | | CAP, U 0.01-25 |
| C822 | 87-012-286-080 | | CAP, U 0.01-25 |
| C823 | 87-012-286-080 | | CAP, U 0.01-25 |
| C828 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C829 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C959 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C960 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| C961 | 87-012-174-080 | | C-CAP,U 12P-50 CH |
| C963 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| CF801 | 87-008-261-010 | | FILTER, SFE10.7MA5-A |
| CF802 | 87-008-261-010 | | FILTER, SFE10.7MA5-A |
| CN701 | 87-A60-700-010 | | CONN,13P H GRY TUC-P13X-C1 |
| FFE801 | A8-8ZA-190-030 | | 8ZA-1 FEUNM |
| J801 | 87-A60-702-010 | | TERMINAL,ANT 4P CJ-9036 |
| L771 | 87-A50-266-010 | | COIL,FM DET-2N(TOK) |
| L772 | 87-A91-110-010 | | FLTR,PCFJZH-450 (TOK) |
| L981 | 8Z-ZA1-664-010 | | COIL,AM PACK 4(TOM) |
| X721 | 87-A70-061-010 | | VIB,XTAL 4.500MHZ CSA-309PT C.B |

RELAY C.B

| | | | |
|---|---|---|---|
| CN301 | 88-CL4-701-010 | | CONN ASSY,7P RPEH |

DECK C.B

| | | | |
|---|---|---|---|
| CON1 | 87-009-352-010 | | CONN,9P PH H |
| SFR1 | 87-024-581-010 | | SFR,3.3K H KVSF637A |
| SOL2 | 82-ZM1-618-410 | | SOL ASSY,27 |
| SW2 | 87-036-110-010 | | SW,MICRO SPPB62 |
| SW3 | 87-036-110-010 | | SW,MICRO SPPB62 |
| SW5 | 87-036-110-010 | | SW,MICRO SPPB62 |
| SW6 | 87-A90-248-010 | | SW,MICRO ESE11SH2CXQ |
| W1 | 82-ZM1-625-010 | | RBN-CORD,4P-5S |

CD LOAD C.B

| | | | |
|---|---|---|---|
| CON6 | 87-099-210-010 | | CONN,5P 6216H |
| FC6 | 88-905-231-110 | | FF-CABLE,5P 1.25 23 |
| M1 | 87-045-305-010 | | MOTOR,RF-500TB DC-5V(2MA) |
| SW1 | 87-036-110-010 | | PUSH SWITCH |
| SW2 | 87-036-110-010 | | PUSH SWITCH |

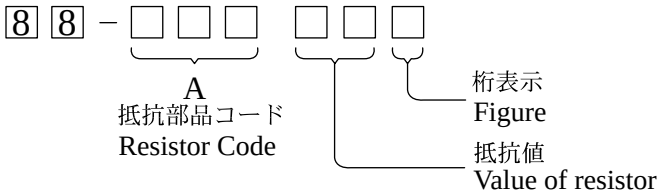
CD DRIVE C.B

| | | | |
|---|---|---|---|
| CON3 | 87-A60-086-010 | | CONN,6P H 6216 |
| FC3 | 88-906-261-110 | | FF-CABLE,6P 1.25 26 |

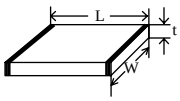
| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| M20 | 87-045-358-010 | | MOT,RF-310TA 43 |
| M21 | 87-045-356-010 | | MOT,RF-310TA 30 |
| SW1 | 87-A90-042-010 | | SW,LEAF MSW-17310MVP0 |

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

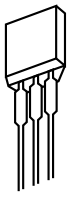
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding




チップ抵抗
Chip resistor

| 容量 Wattage | 種類 Type | 許容誤差 Tolerance | 記号 Symbol | 寸法／Dimensions (mm) | | | | 抵抗コード　：A Resistor Code：A |
|---|---|---|---|---|---|---|---|---|
| | | | | 外形／Form | L | W | t | |
| 1/16W | 1005 | ±5% | CJ |  | 1.0 | 0.5 | 0.35 | 104 |
| 1/16W | 1608 | ±5% | CJ | | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | ±5% | CJ | | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | ±5% | CJ | | 3.2 | 1.6 | 0.55 | 128 |

# TRANSISTOR ILLUSTRATION



E C B

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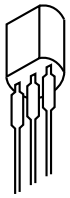
2SC4115
DTA144ES
DTC114ES
DTC144TS
KTA1267
KTC3199



E C B

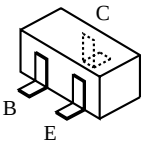
2SA1296
2SC1815
KTA1266
KTC3198
CSC4115

E C B

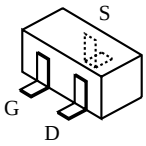
2SA952
2SD655

E C B

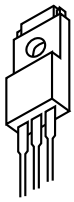
2SA1318
2SC3331




2SA1162Y DTA144TK
2SC2712GR DTC114EK
2SC2714 DTC114TK
2SC3052F RT1P141C
CSD1306E RT1P144C
DTC144TK

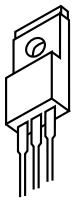



2SK2158
2SK543-TB



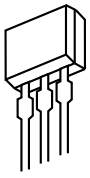
B C E

2SB1616
2SD2478



B C E

2SB1370



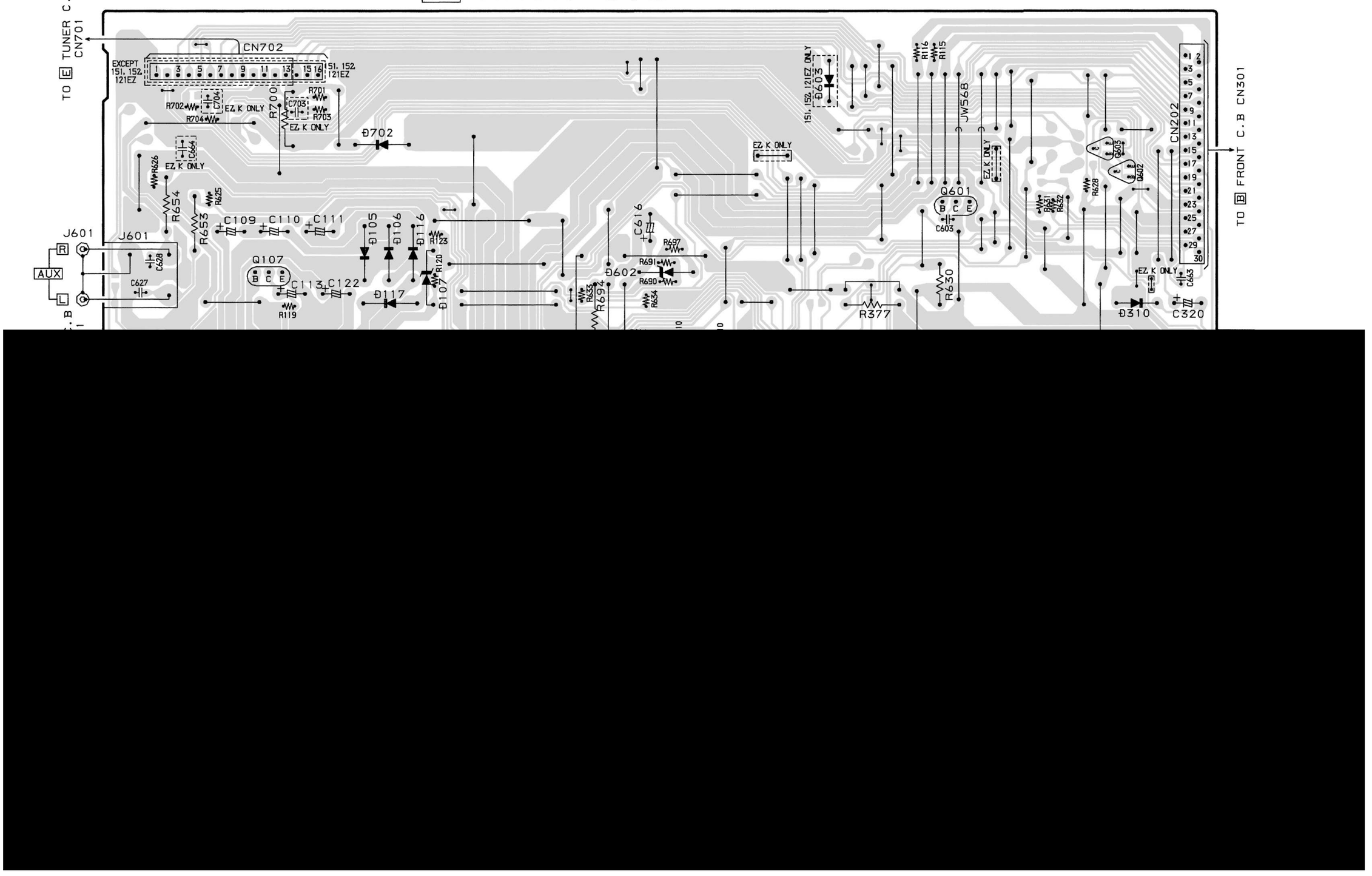
S D G

2SK2541

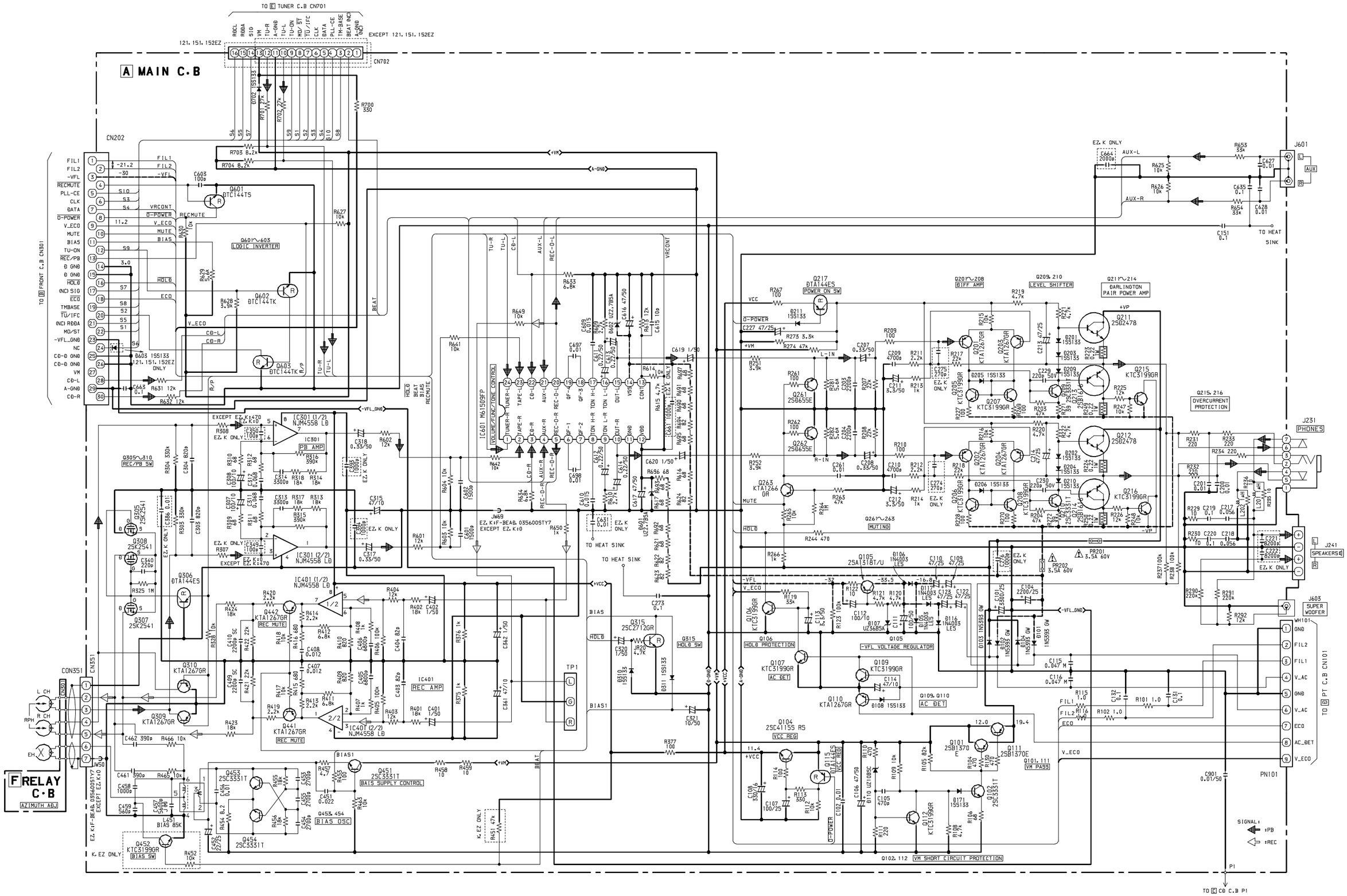
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

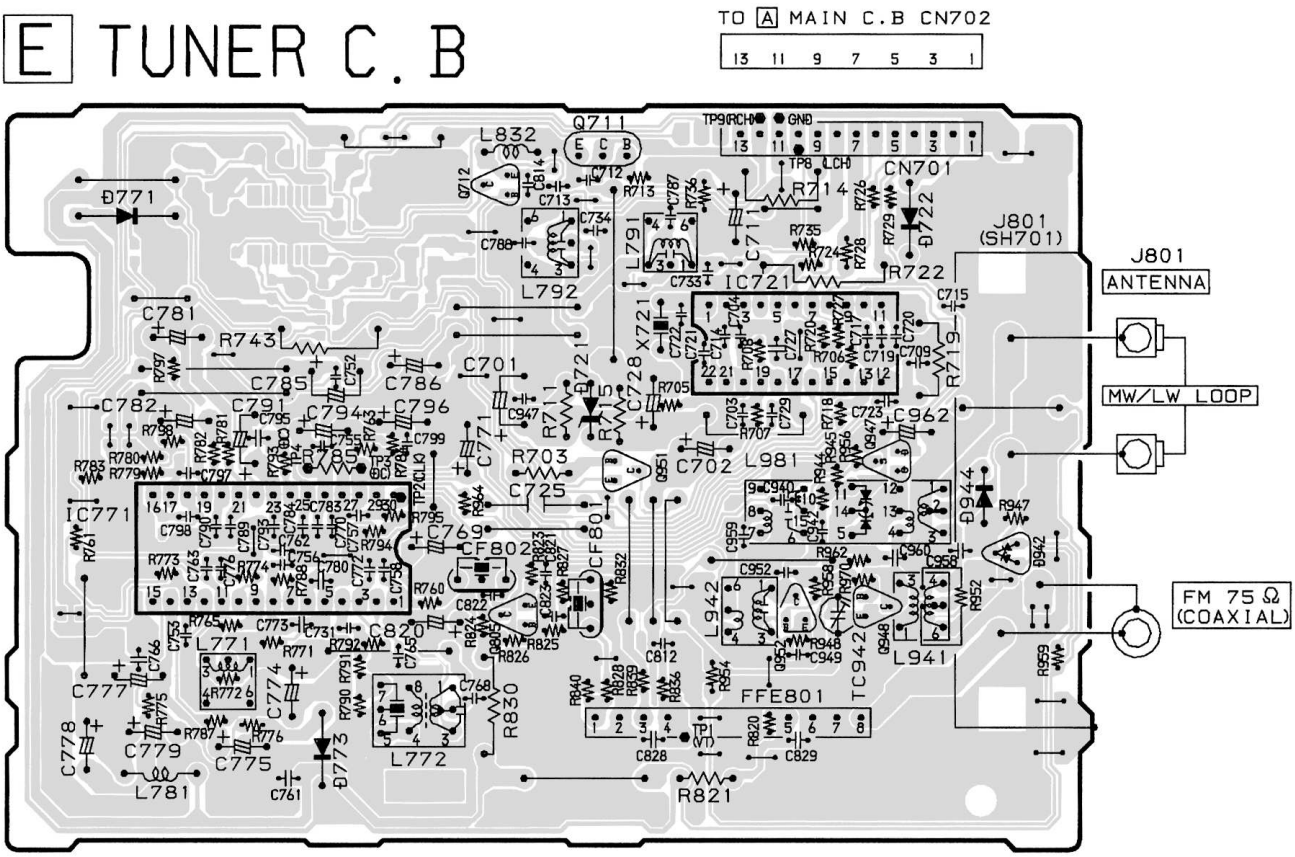
A B C D E F G H I J K L M N O P Q R S T U

# A MAIN C.B

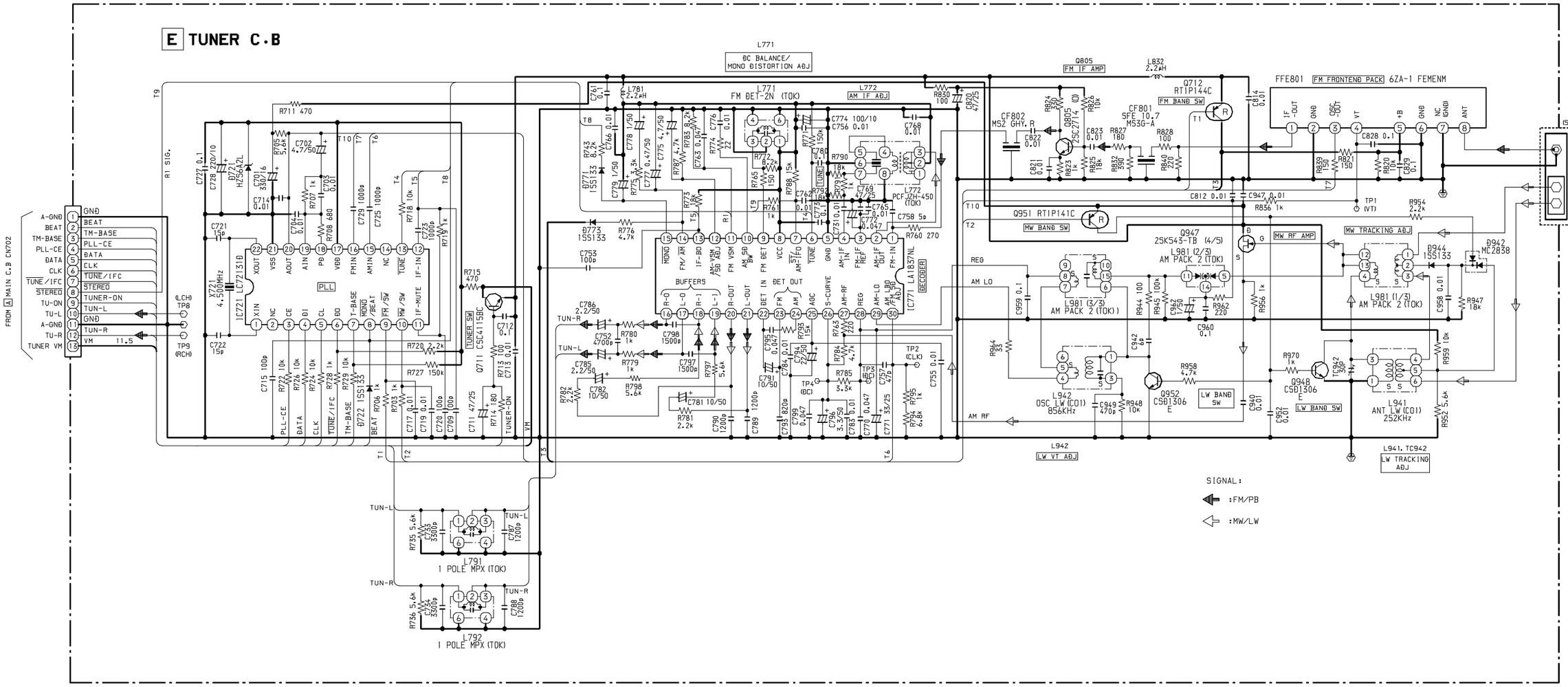


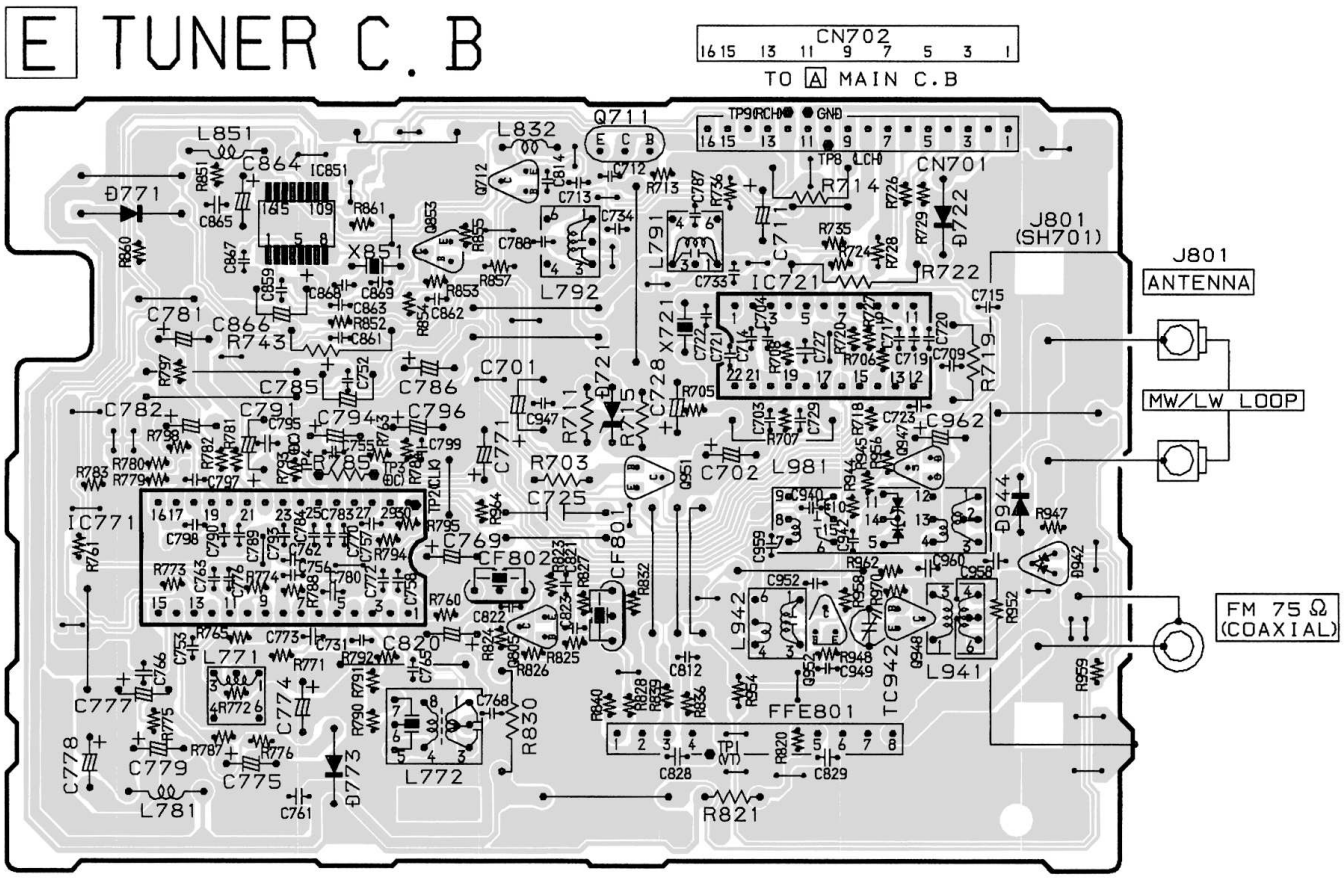
# SCHEMATIC DIAGRAM - 1 (MAIN / RELAY)



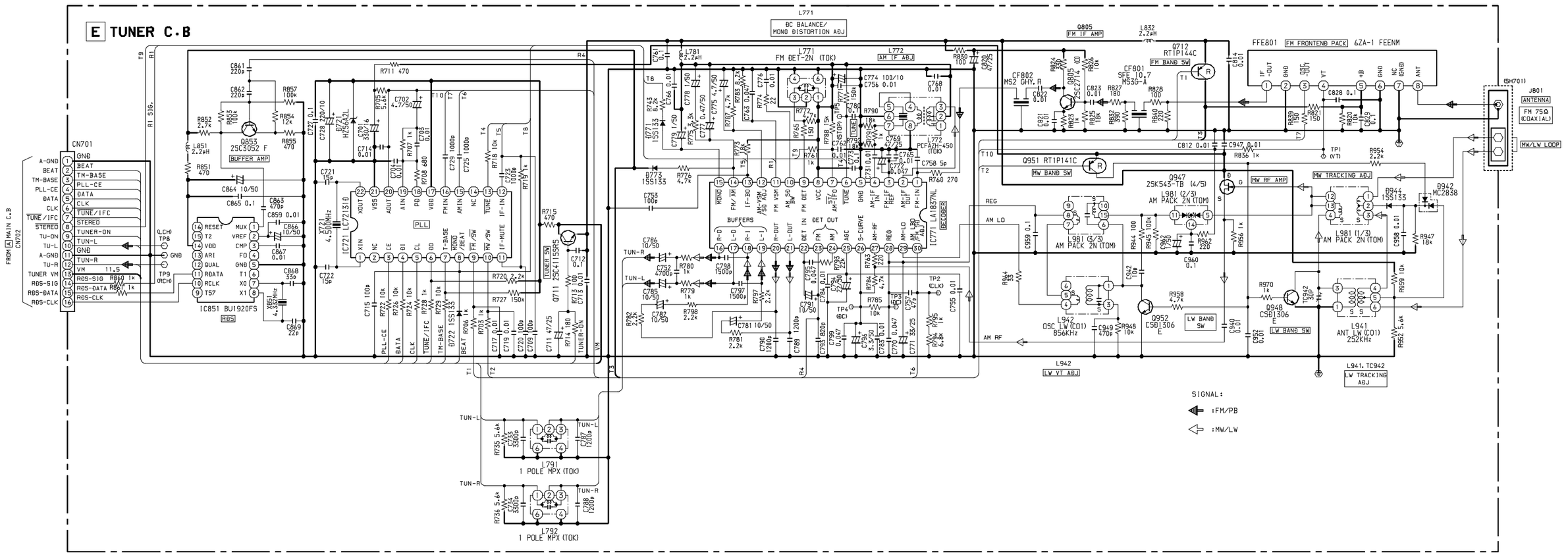

E TUNER C. B
TO A MAIN C.B CN702
13 11 9 7 5 3 1
J801 ANTENNA
MW/LW LOOP
FM 75Ω (COAXIAL)
J801 (SH701)
CN701
IC771
IC721
L981
L942
L941
L771
L772
L781
L792
L791
X721
FFE801
TC942
Q711
D771
D722
D944
D773
R821
R722
R714
C781
C782
C791
C796
C701
C702
C725
C769
C820
C962
C777
C778
C779
C775
C774
R743
R703
R711
R715
R719
R830
CF801
CF802

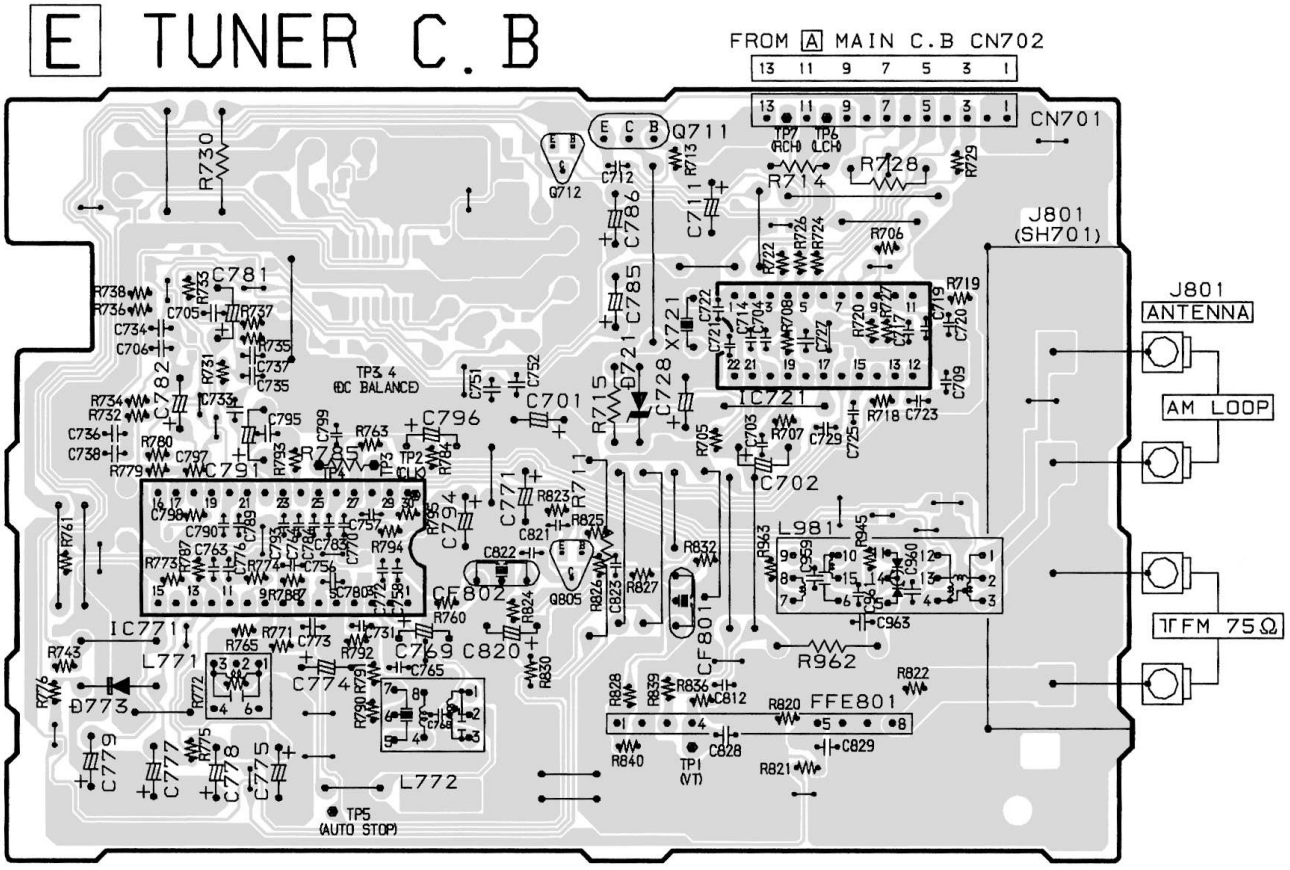
SCHEMATIC DIAGRAM - 2 (TUNER: 100EZ,120,150K)



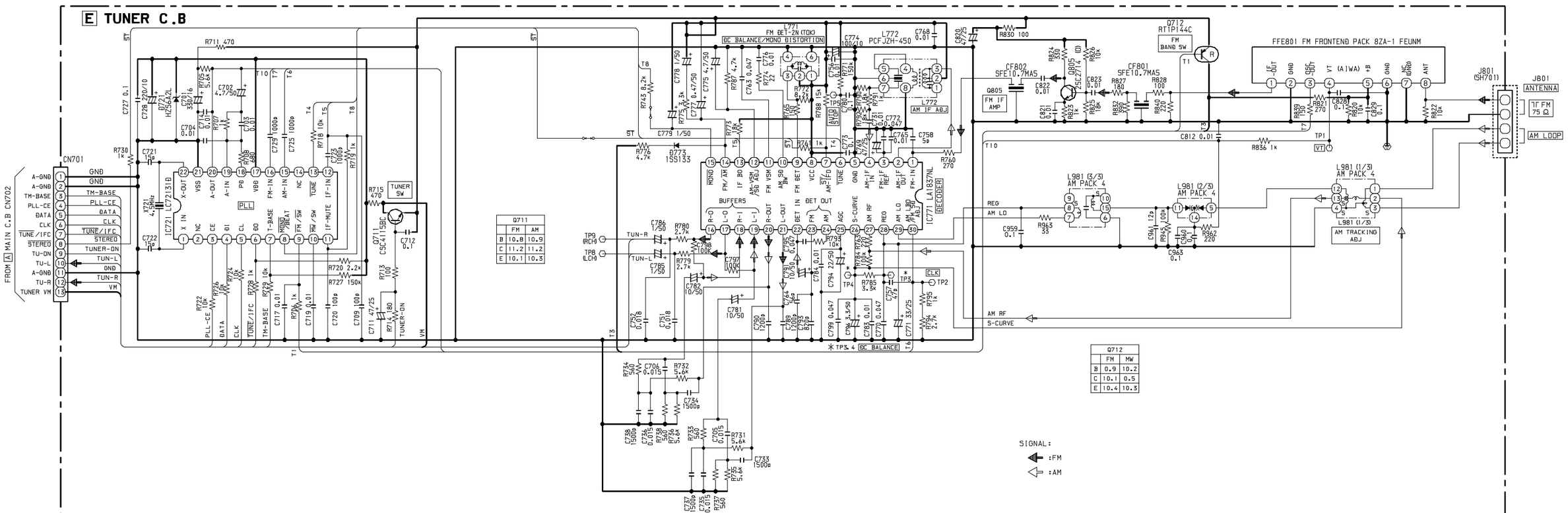

E TUNER C.B
CN702
TO A MAIN C.B
J801
(SH701)
J801
ANTENNA
MW/LW LOOP
FM 75Ω
(COAXIAL)
IC721
IC771
FFE801
L781
L772
L771
L791
L792
L981
L942
L941
TC942
X851
X721
CF802
CF801

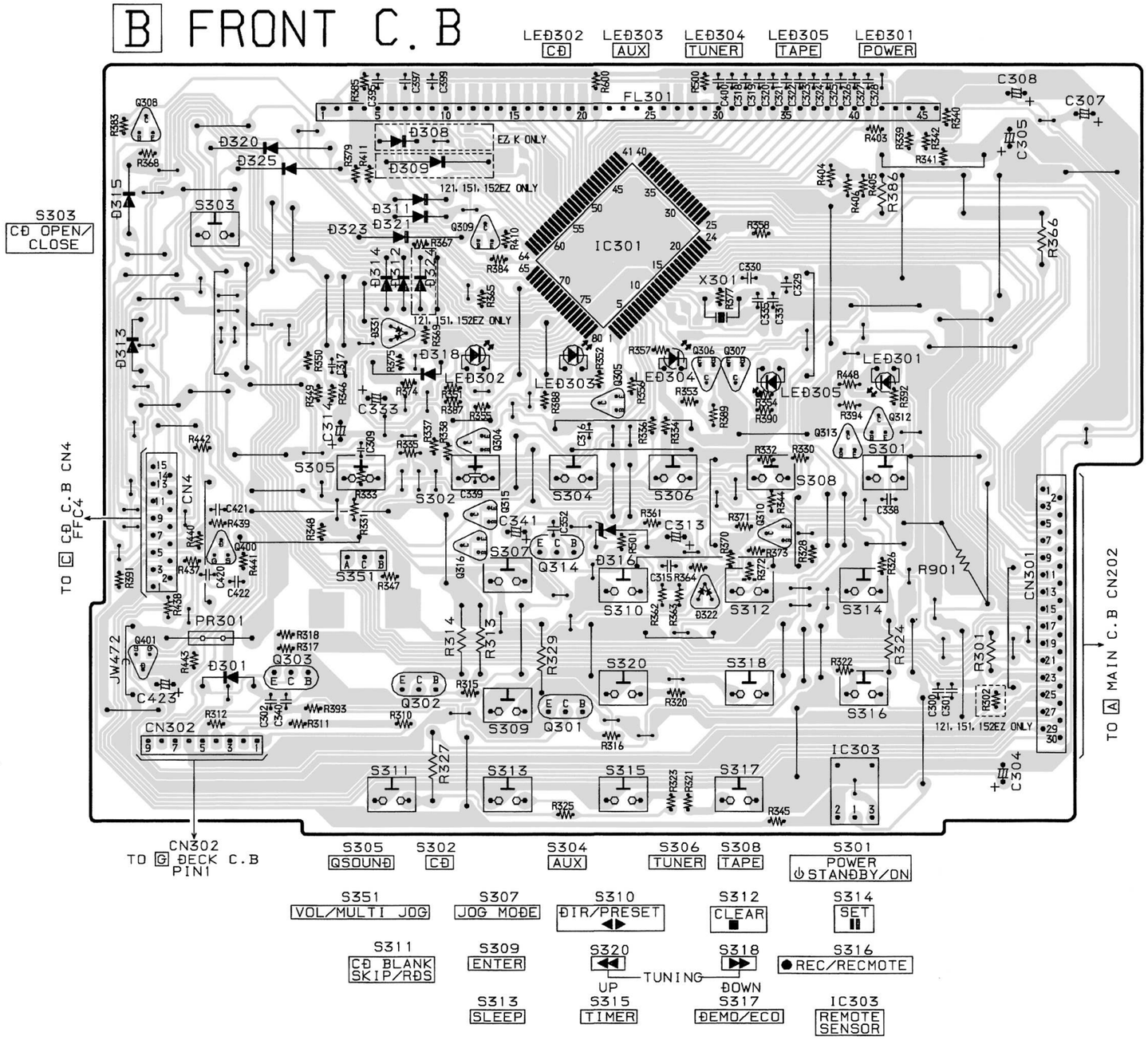
SCHEMATIC DIAGRAM - 3 (TUNER: 121,151,152EZ)

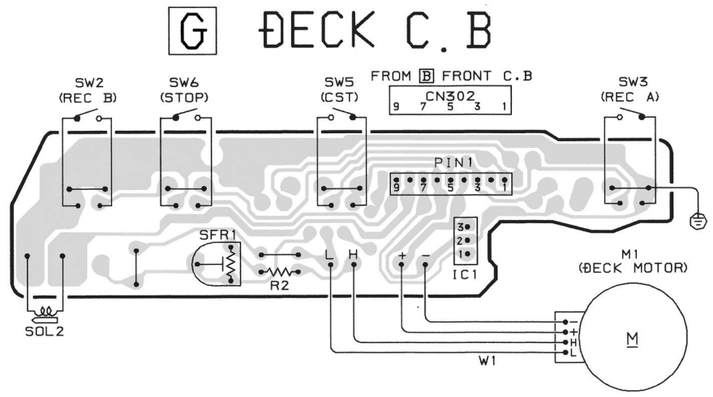


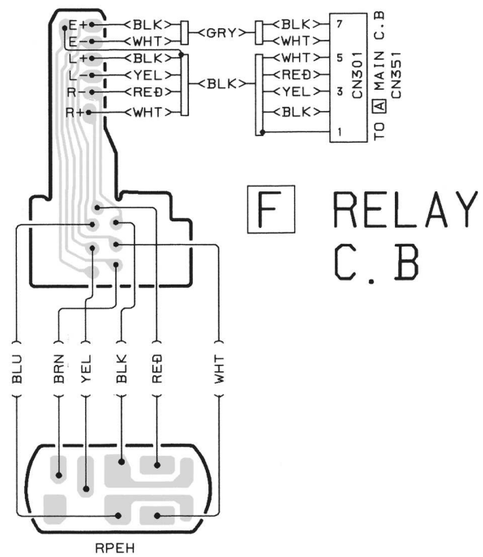

E TUNER C.B
FROM A MAIN C.B CN702
CN701
J801
(SH701)
J801
ANTENNA
AM LOOP
FM 75Ω
IC721
IC771
IC791
L981
L771
L772
FFE801
Q711
Q712
Q805
D773
TP5
(AUTO STOP)
TP1
(VT)
TP3 4
(DC BALANCED)

SCHEMATIC DIAGRAM - 4 (TUNER: HR,HT)

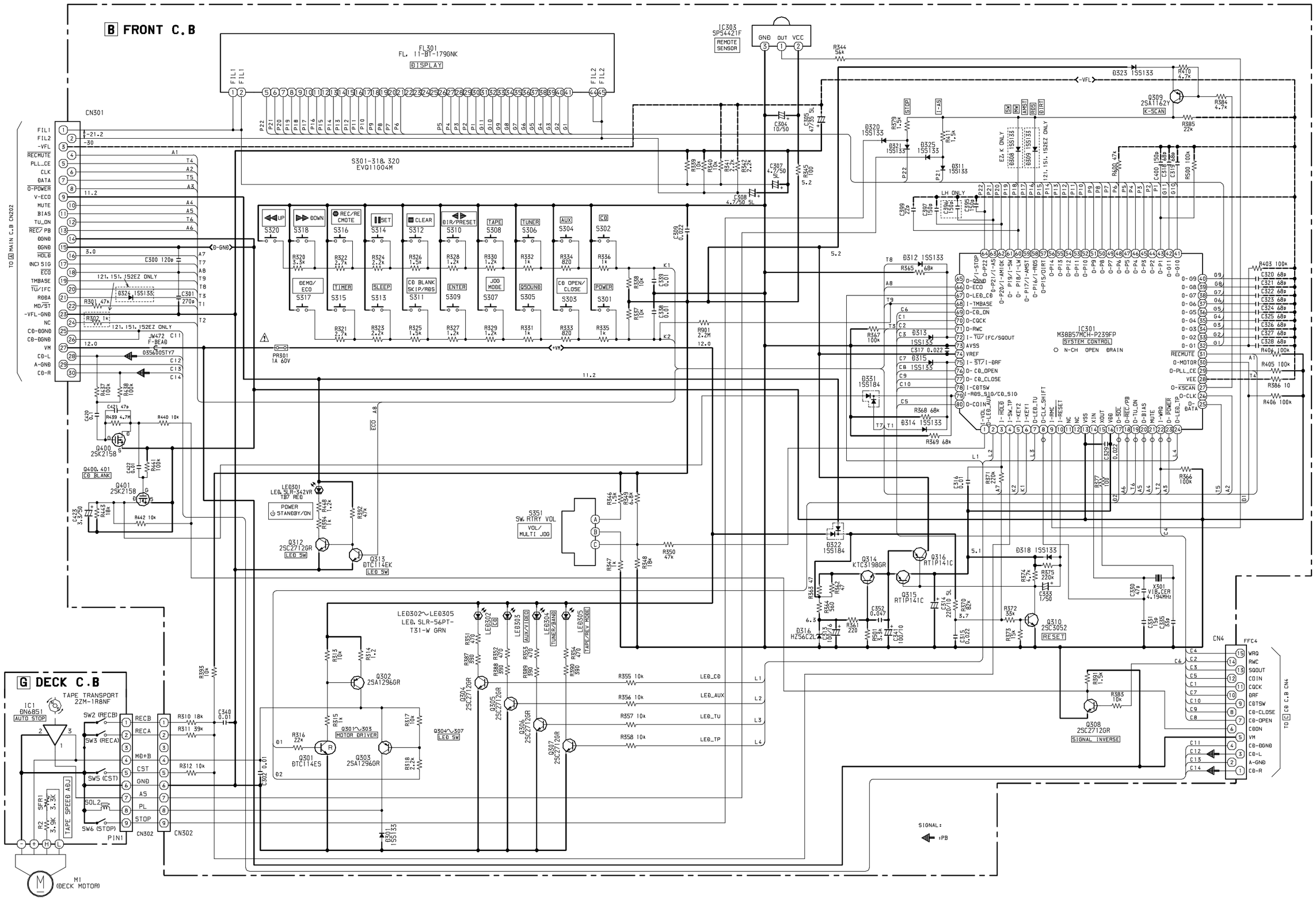


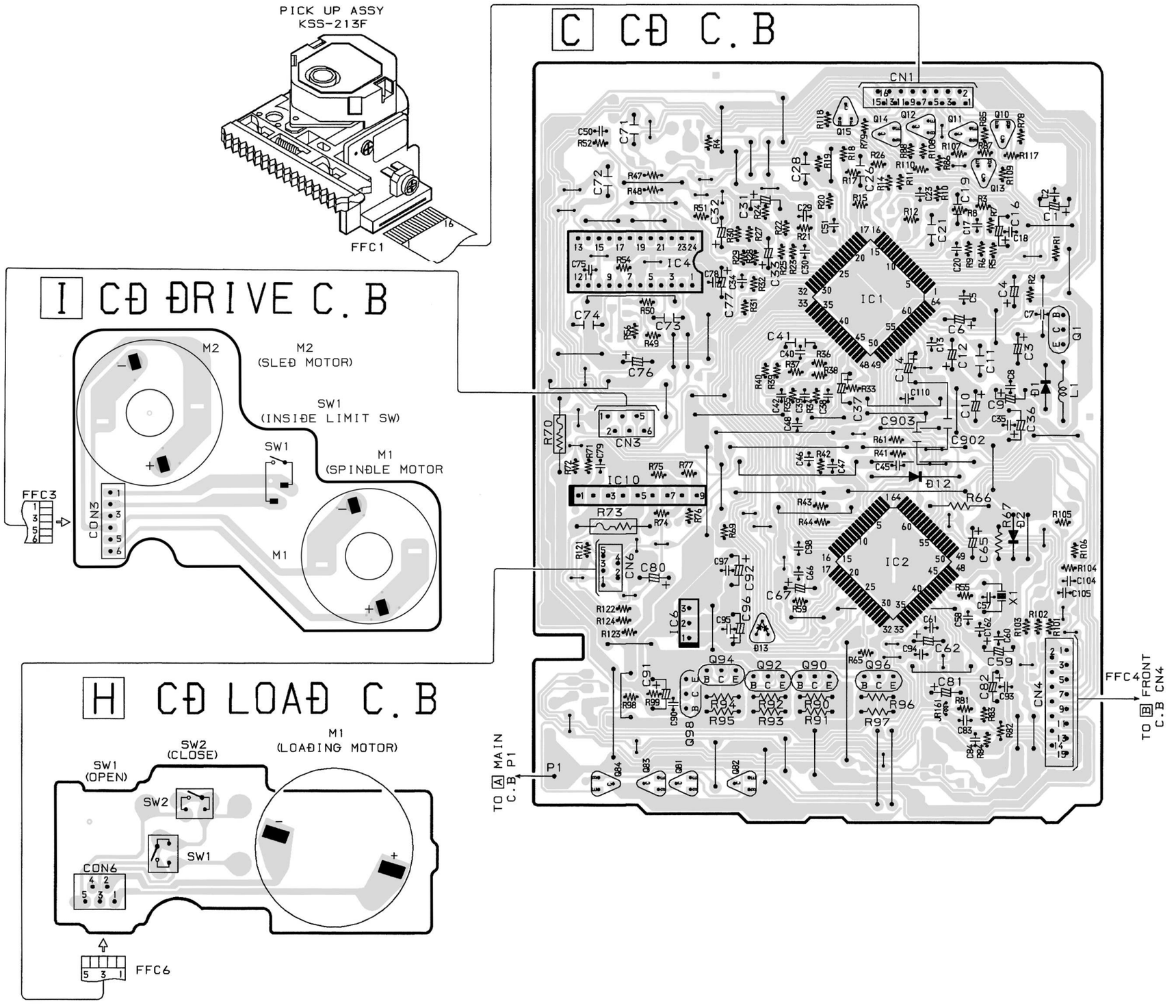

B FRONT C.B
LEÐ302 CÐ
LEÐ303 AUX
LEÐ304 TUNER
LEÐ305 TAPE
LEÐ301 POWER
FL301
IC301
X301
S303 CÐ OPEN/CLOSE
Ð308
EZ,K ONLY
Ð309
121, 151, 152EZ ONLY
Ð320
Ð325
Ð315
Ð313
Ð323
Ð311
Ð321
Ð314
Ð312
Ð324
Ð318
LEÐ302
LEÐ303
LEÐ304
LEÐ305
LEÐ301
C308
C307
C305
R386
R366
R901
S305
S302
S304
S306
S308
S301
S307
S310
S312
S314
S351
S311
S309
S320
S318
S316
S313
S315
S317
IC303
PR301
Ð301
Q303
Q302
Q301
S320
S318
S309
S316
S310
S314
S312
S317
S313
S315
IC303
CN302
PIN1
CN4
CN301
TO C CÐ C.B CN4 FFC4
TO A MAIN C.B CN202
CN302 TO G ÐECK C.B PIN1
VOL/MULTI JOG
JOG MOÐE
ÐIR/PRESET
CLEAR
SET
CÐ BLANK SKIP/RÐS
ENTER
UP
TUNING
ÐOWN
REC/RECMOTE
SLEEP
TIMER
ÐEMO/ECO
REMOTE SENSOR
QSOUNÐ
CÐ
AUX
TUNER
TAPE
POWER STANÐBY/ON


G ÐECK C.B
SW2 (REC B)
SW6 (STOP)
SW5 (CST)
SW3 (REC A)
FROM B FRONT C.B
CN302
PIN1
SFR1
R2
IC1
M1 (ÐECK MOTOR)
SOL2
W1

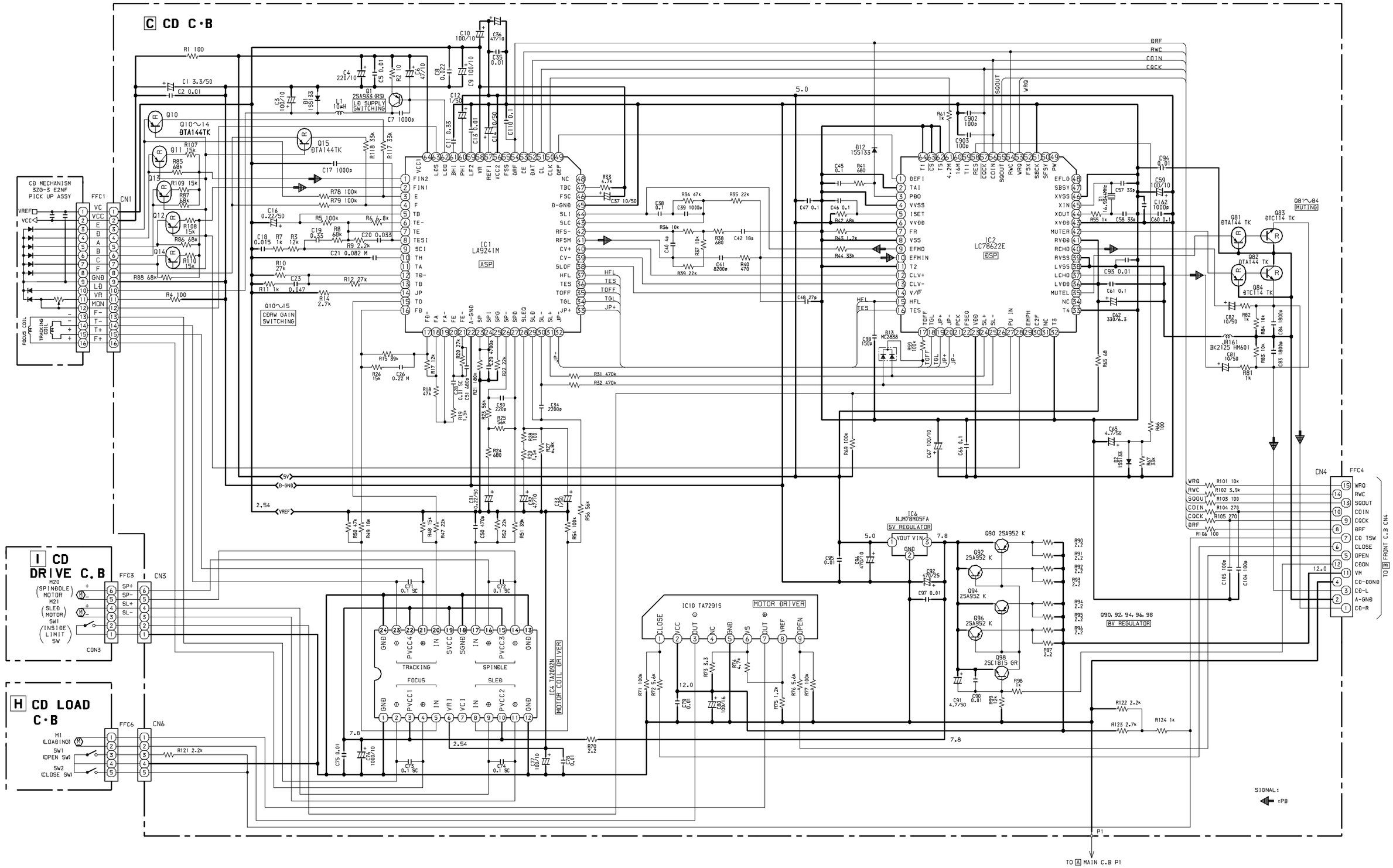

E+ BLK
E- WHT
L+ BLK
L- YEL
R- REÐ
R+ WHT
GRY
BLK
CN301
TO A MAIN C.B CN351
F RELAY C.B
BLU
BRN
YEL
BLK
REÐ
WHT
RPEH

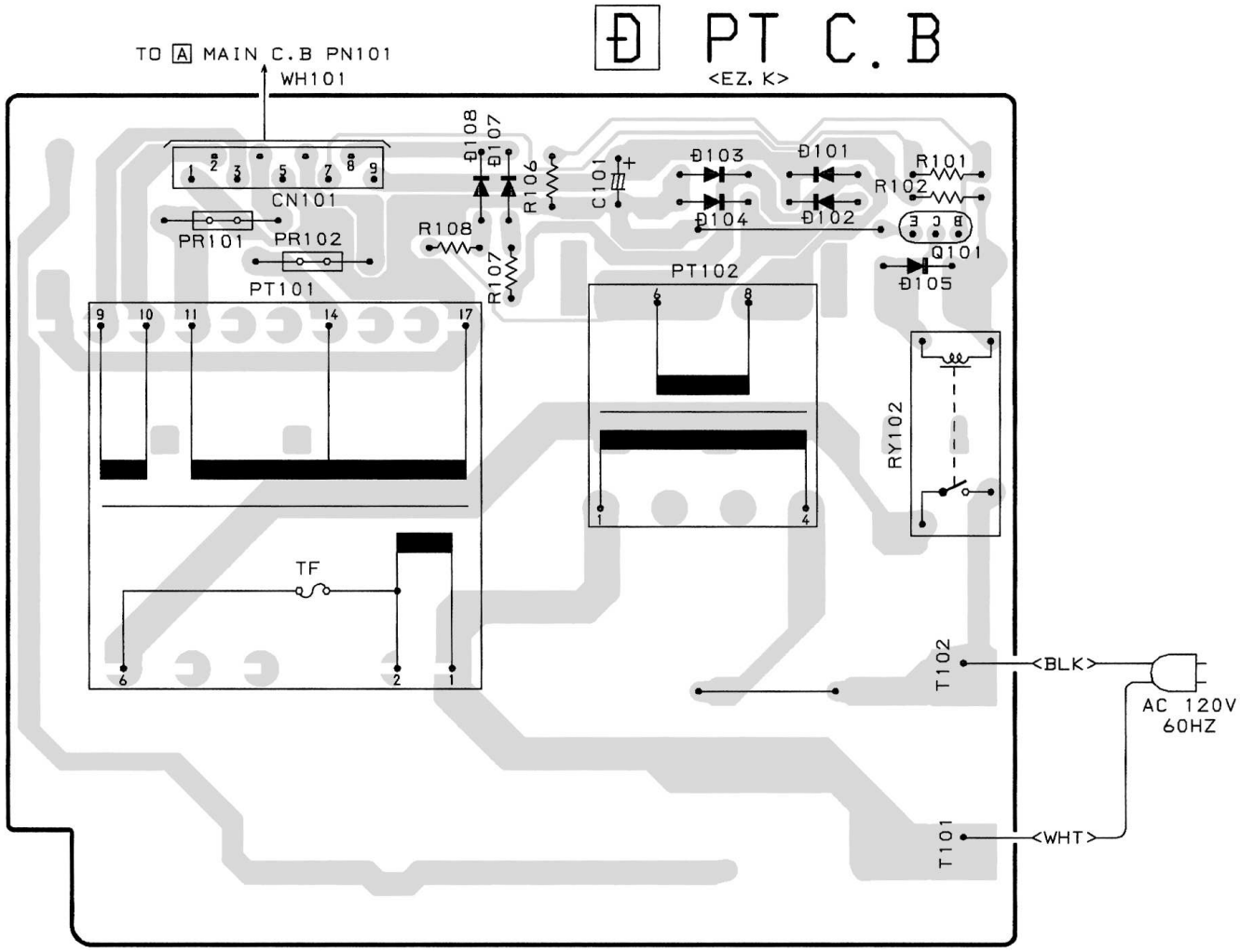
SCHEMATIC DIAGRAM - 5 (FRONT / DECK)



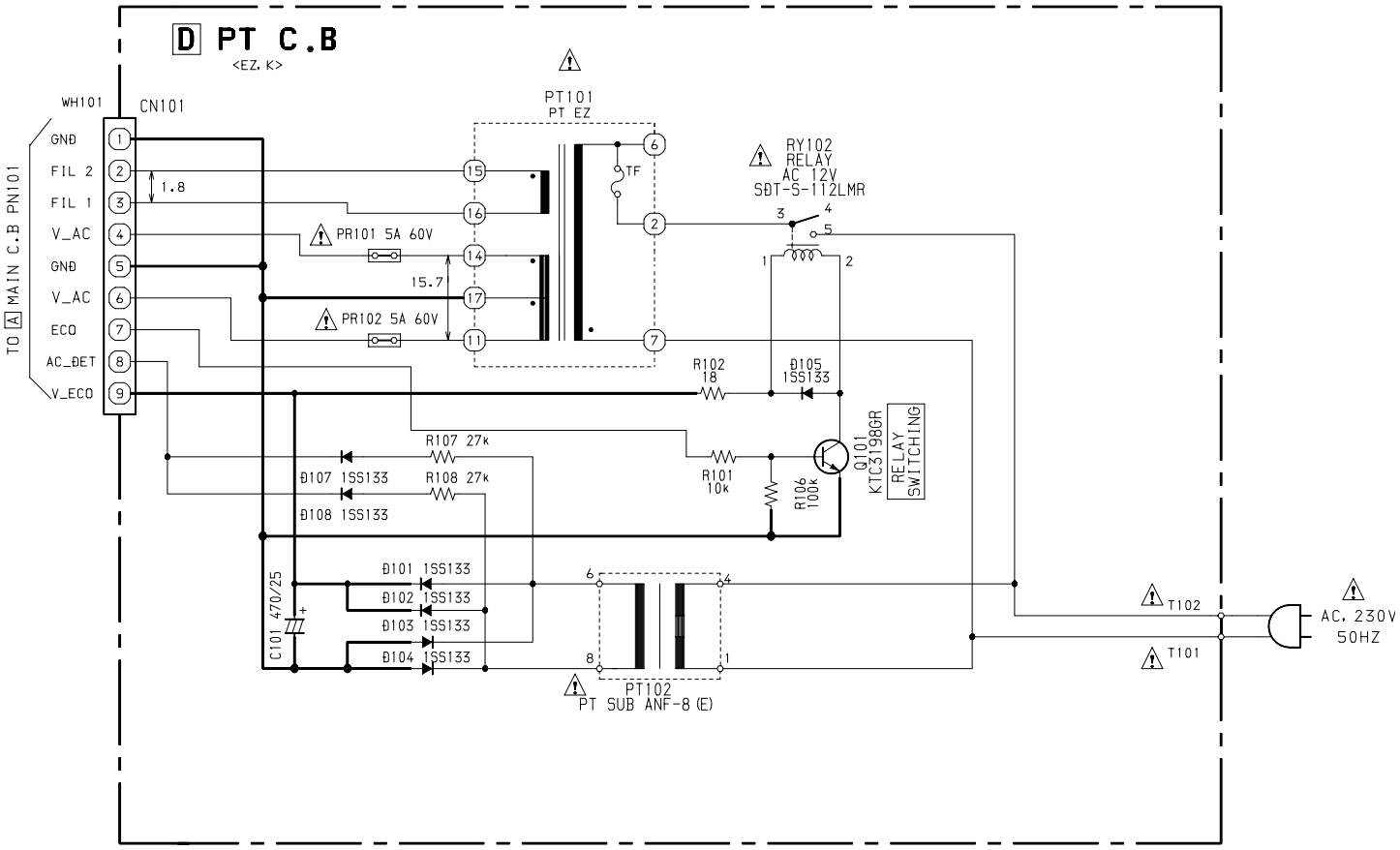

PICK UP ASSY
KSS-213F
FFC1
C CD C.B
CN1
IC1
IC2
IC4
IC10
CN3
CN4
CN6
IC6
Q1
Q10
Q11
Q12
Q13
Q14
Q15
Q90
Q92
Q94
Q96
Q98
Q81
Q82
Q83
Q84
D1
D2
D12
D13
X1
TO A MAIN C.B P1
P1
TO B FRONT C.B CN4
FFC4
I CD DRIVE C.B
M2
M2
(SLED MOTOR)
SW1
(INSIDE LIMIT SW)
SW1
M1
(SPINDLE MOTOR
M1
FFC3
CON3
H CD LOAD C.B
SW2
(CLOSE)
SW1
(OPEN)
M1
(LOADING MOTOR)
SW2
SW1
CON6
FFC6

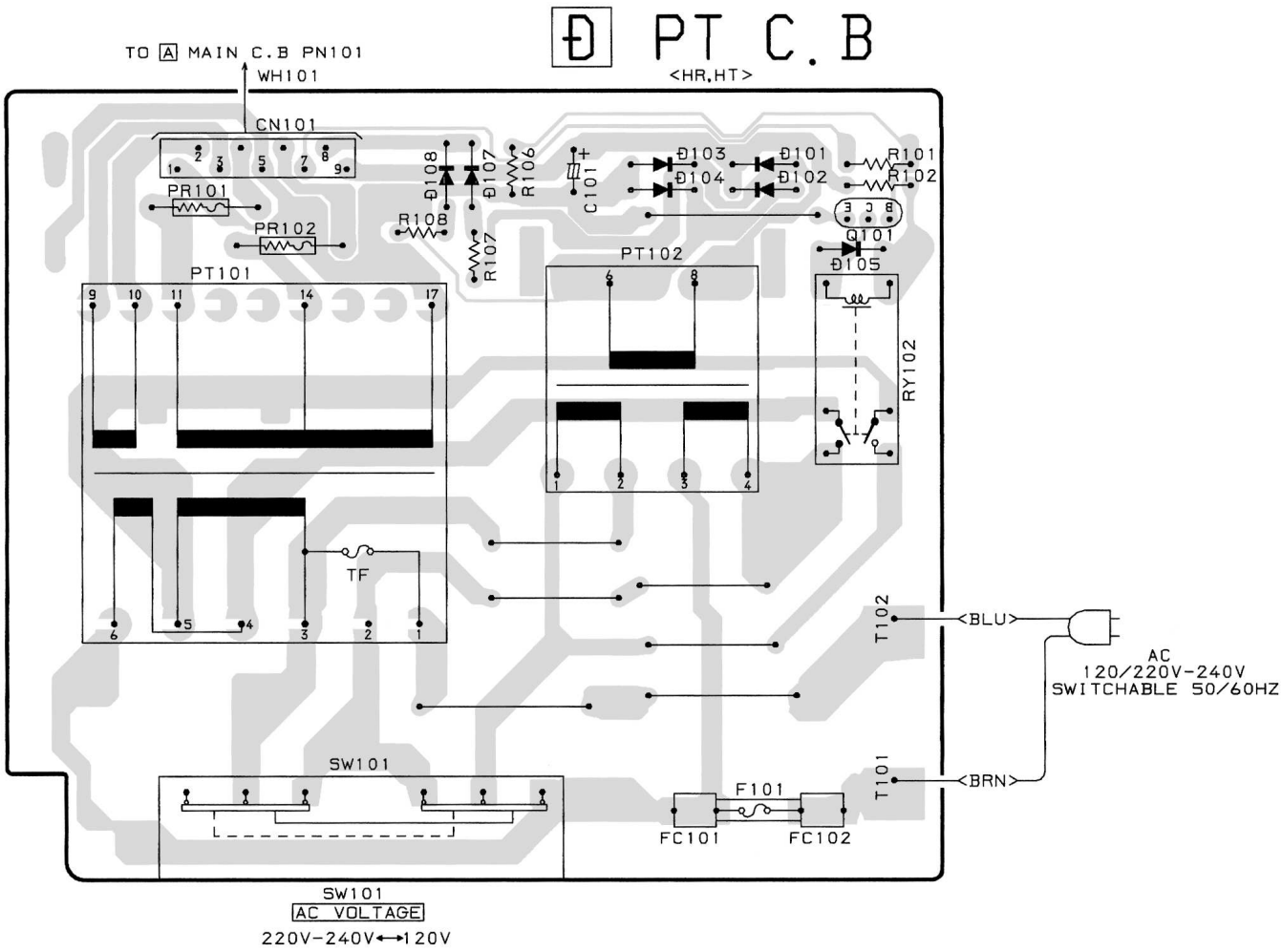
SCHEMATIC DIAGRAM - 6 (CD / CD LOAD / CD DRIVE )



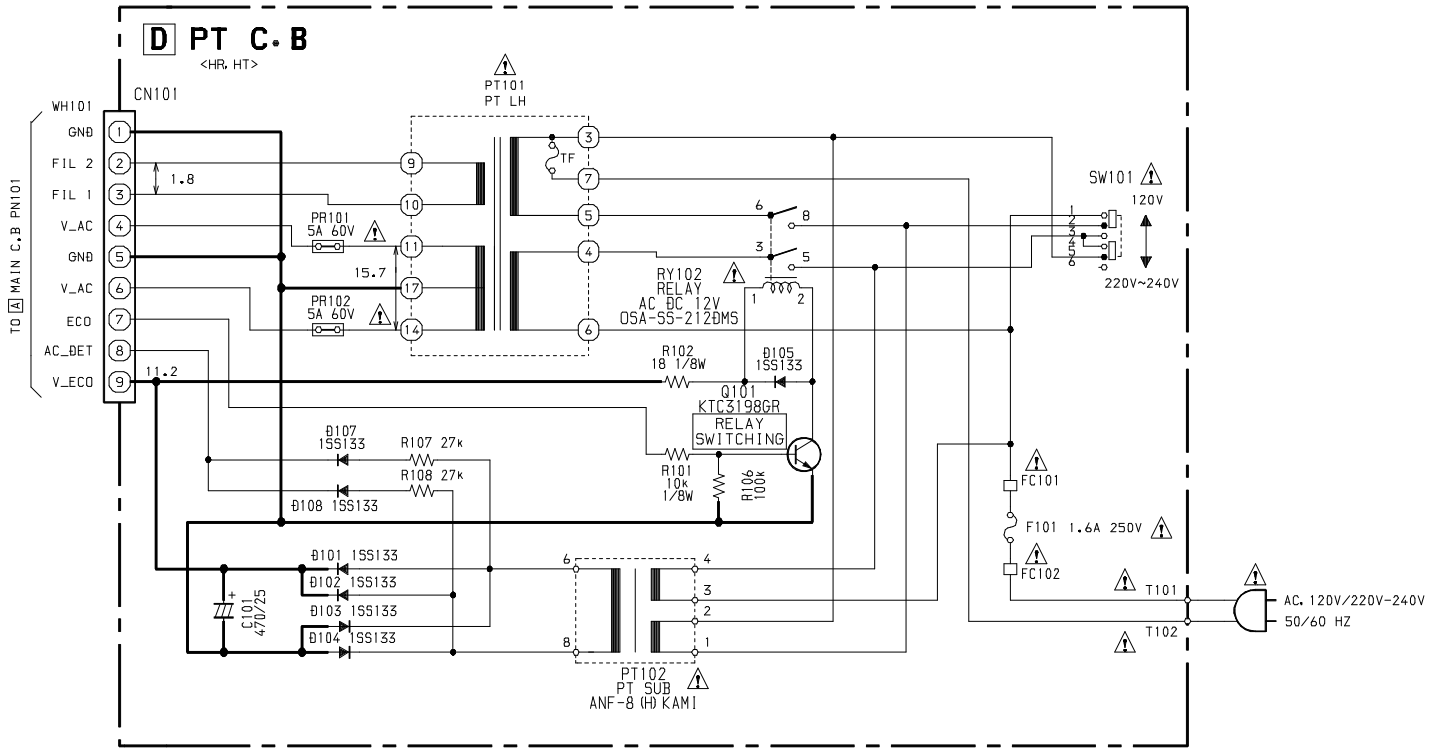

PT C.B
<EZ, K>
TO A MAIN C.B PN101
WH101
CN101
PR101
PR102
PT101
R108
D108
D107
R106
C101
D103
D104
D101
D102
R101
R102
Q101
D105
PT102
RY102
TF
T102
BLK
AC 120V
60HZ
T101
WHT

SCHEMATIC DIAGRAM - 7 (PT: EZ,K)



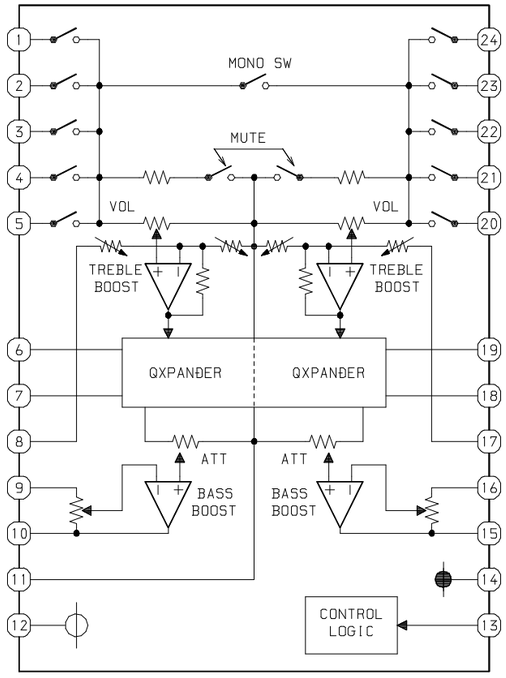

PT C.B
<HR,HT>
TO A MAIN C.B PN101
WH101
CN101
PR101
PR102
PT101
PT102
TF
SW101
F101
FC101
FC102
C101
R101
R102
R106
R107
R108
Q101
RY102
T102
T101
<BLU>
<BRN>
AC
120/220V-240V
SWITCHABLE 50/60HZ
SW101
AC VOLTAGE
220V-240V↔120V

SCHEMATIC DIAGRAM - 8 (PT: HR,HT)

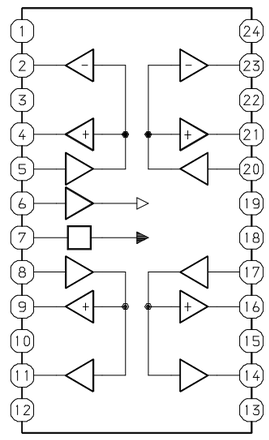


# IC BLOCK DIAGRAM

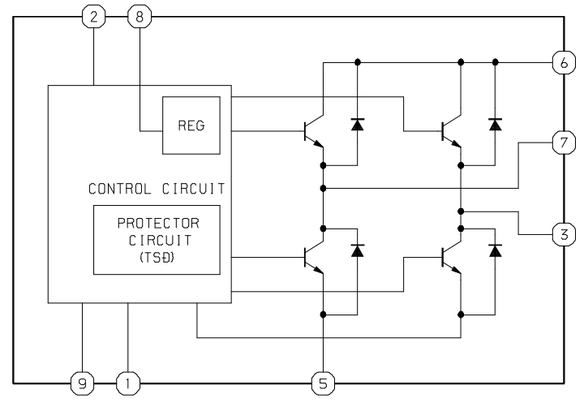
IC, M61509FP



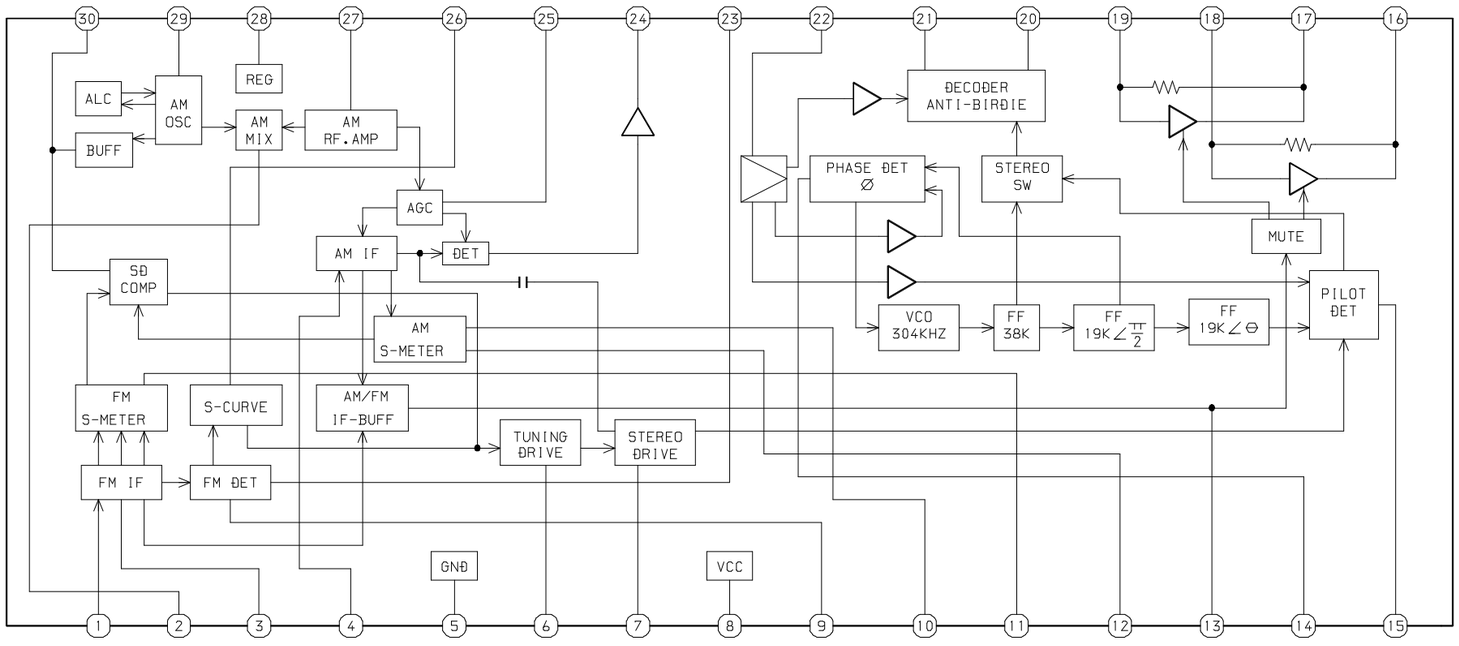

IC, TA2092N



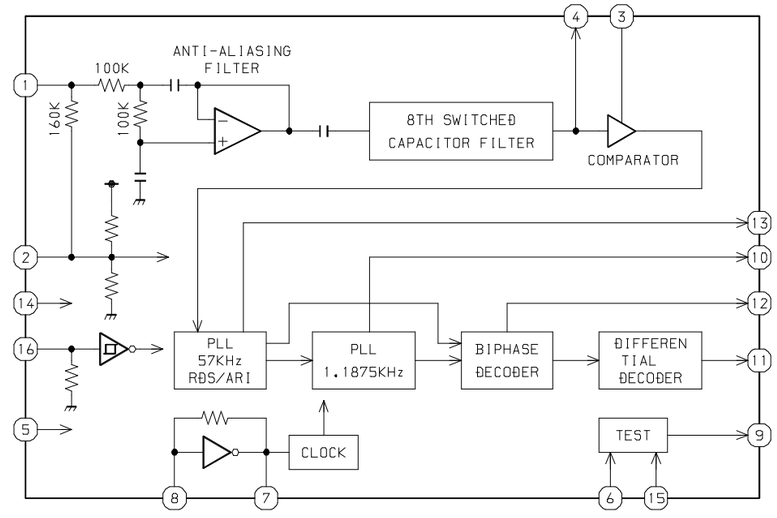
IC, TA7291S




IC, LA1837NL

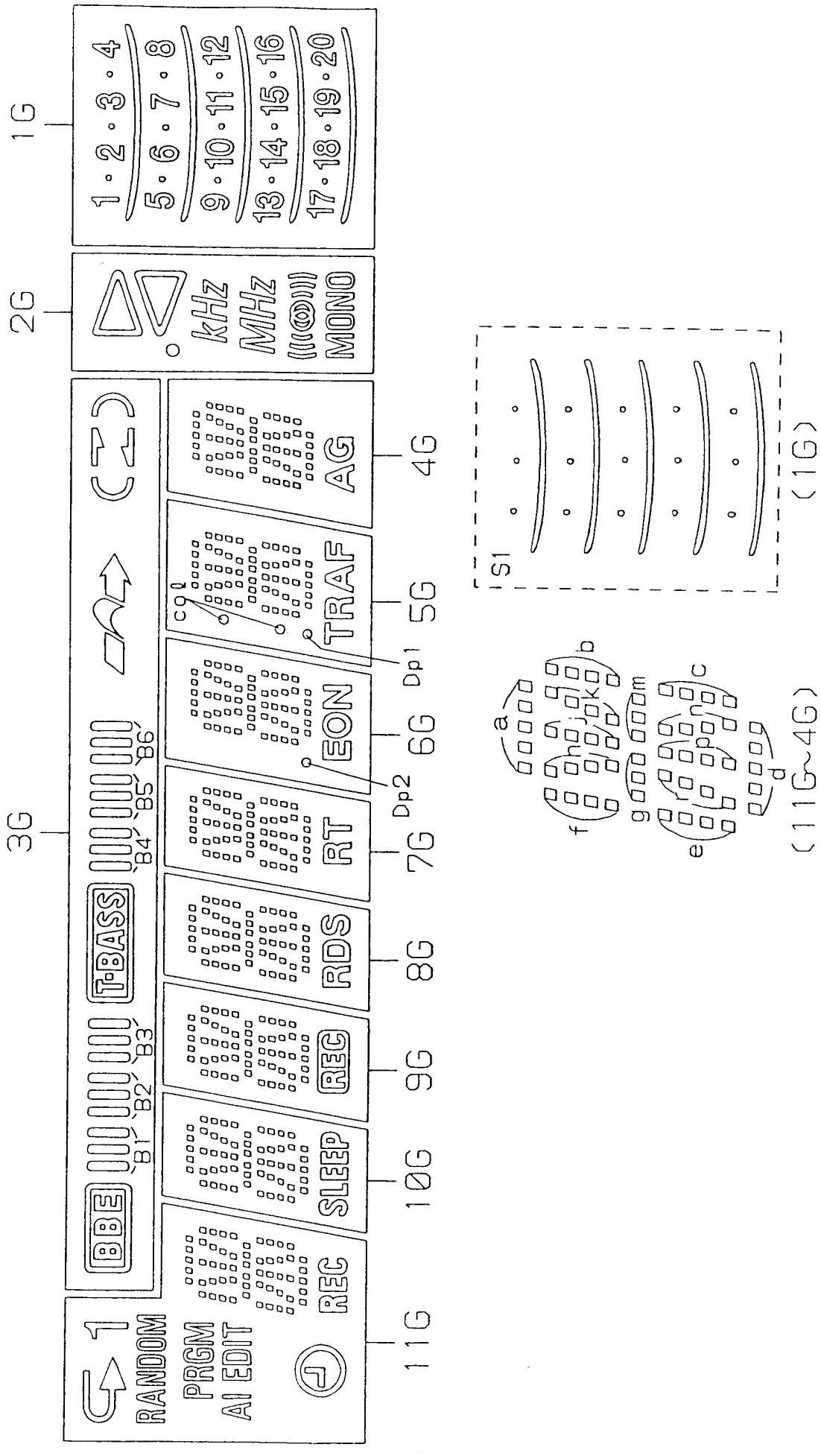



IC, BU1920FS



FL (11-BT-179GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

| | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P1 | REC | SLEEP | REC | RDS | RT | EON | TRAF | AG | BBE | MONO | 20 |
| P2 | d | d | d | d | d | d | d | d | B1 | ((( ))) | 19 |
| P3 | n | n | n | n | n | n | n | n | B2 | MHz | 18 |
| P4 | p | p | p | p | p | p | p | p | B3 | kHz | 17 |
| P5 | r | r | r | r | r | r | r | r | T-BASS | ○ | 16 |
| P6 | e | e | e | e | e | e | e | e | B4 | ◁ | 15 |
| P7 | c | c | c | c | c | c | c | c | B5 | ▷ | 14 |
| P8 | g | g | g | g | g | g | g | g | B6 | - | 13 |
| P9 | m | m | m | m | m | m | m | m | | - | 12 |
| P10 | f | f | f | f | f | f | f | f | | - | 11 |
| P11 | b | b | b | b | b | b | b | b | | - | 10 |
| P12 | k | k | k | k | k | k | k | k | | - | 9 |
| P13 | j | j | j | j | j | j | j | j | - | - | 8 |
| P14 | h | h | h | h | h | h | h | h | - | - | 7 |
| P15 | a | a | a | a | a | a | a | a | - | - | 6 |
| P16 | RANDOM | - | - | - | - | - | col | - | - | - | 5 |
| P17 | ◴ | - | - | - | - | - | col | - | - | - | 4 |
| P18 | 1 | - | - | - | - | Dp2 | Dp1 | - | - | - | 3 |
| P19 | PRGM | - | - | - | - | - | - | - | - | - | 2 |
| P20 | AI | - | - | - | - | - | - | - | - | - | 1 |
| P21 | EDIT | - | - | - | - | - | - | - | - | - | S1 |
| P22 | ↱ | - | - | - | - | - | - | - | - | - | - |

# IC DESCRIPTION

IC, M38B57MCH-P239FP

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | I-VOL | I | Rotary encider volume A/D input. |
| 2 | O-LED_AUX | O | Tuner functin LED ON/OFF output.Aux function LED ON/OFF output. |
| 3 | I-HOLD | I | System hold input A/D input. |
| 4 | I-SW_TP | I | Cassette detect switch A/D input. |
| 5 | I-KEY2 | I | Key 2 A/D input. |
| 6 | I-KEY1 | I | Key 1 A/D input. |
| 7 | O-LED_TU | O | Tuner functin LED ON/OFF output. |
| 8 | O-CLK_SHIFT | O | Micon clock shift output. |
| 9 | I-RMC | I | Remote-con data input. |
| 10 | I-$\overline{\text{RESET}}$ | I | Micon reset input. |
| 11 | XCOUT | O | 32.768 kHz sub clock. |
| 12 | XCIN | I | |
| 13 | VSS | I | GND. |
| 14 | NC | I | Not connected. |
| 15 | NC | O | |
| 16 | VDD | I | Power supply. |
| 17 | O-$\overline{\text{SOL}}$ | O | Deck solenoid ON/OFF output. |
| 18 | O-$\overline{\text{REC}}$/PB | O | Deck record/ playback select output. |
| 19 | O-TU_ON | O | Tuner mode on output. |
| 20 | O-BIAS | O | Rec 85 kHz oscillator ON/OFF output. |
| 21 | MUTE | O | Mute output. |
| 22 | I-WRQ | I | CD WRQ input. |
| 23 | O-$\overline{\text{POWER}}$ | O | Power ON/OFF control output. |
| 24 | O-LED_TP | O | Tape function LED ON/OFF output. |
| 25 | O-DATA | O | Common serial data output. |
| 26 | O-CLK | O | Common serial clock output. |
| 27 | O-$\overline{\text{KSCAN}}$ | O | Key-scan output. |
| 28 | VEE | I | -VFL. |
| 29 | O-PLL_CE | O | PLL chip enable output. |
| 30 | O-MOTOR | O | Deck motor ON/OFF control output. |
| 31 | $\overline{\text{RECMUTE}}$ | O | Record mute output. |
| 32 ~ 42 | O-G1 ~ G11 | O | FL grid G1 ~ G11 output. |
| 43 ~ 54 | O-P1 ~ P12 | O | FL port P1 ~ P12 output. |
| 55 | O-P13/LH | I/O | FL port P13 output/LH series detection. |
| 56 | O-P14 | I/O | FL port P14 output. |
| 57 | O-P15/OIRT | I/O | FL port P15 output/OIRT diode detect input(Not used). |
| 58 | O-P16/I-RDS | I/O | FL port P16 output/RDS diode detect input. |
| 59 | O-P17/I-AMST | I/O | FL port P17 output/AM stereo diode detect input(Not used). |
| 60 | O-P18/I-LW | I/O | FL port P18 output/LW diode detect input. |
| 61 | O-P19/I-SW | I/O | FL port P19 output/SW diode detect input(Not used). |
| 62 | O-P20/I-AM10K | I/O | FL port P20 output/AM 10k setting diode detect input. |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 63 | O-P21/I-AS | I/O | FL port P21 output/Auto stop signal input. |
| 64 | O-P22/I-STOP | I/O | FL port P22 output/Deck stop signal input. |
| 65 | O-QSND | O | QSND chip enable output. |
| 66 | O-$\overline{\text{ECO}}$ | O | Economical mode. |
| 67 | O-LED_CD | O | CD function LED ON/OFF output. |
| 68 | I-TM_BASE | I | Time base clock (8Hz) input. |
| 69 | O-$\overline{\text{CD_ON}}$ | O | CD ON/OFF control output. |
| 70 | O-CQCK | O | CD clock output. |
| 71 | O-RWC | I/O | CD control data output/RDS data input. |
| 72 | I-$\overline{\text{TU}}$/IFC/SQOUT | I/O | Tuner $\overline{\text{TUNE}}$.IFC input/CD SQOUT input. |
| 73 | AVSS | I | A-GND. |
| 74 | VREF | I | Reference voltage input. |
| 75 | I-$\overline{\text{ST}}$/I-DRF | I | Tuner stereo input/CD DRF input. |
| 76 | O-CD_OPEN | O | CD tray open output. |
| 77 | O-CD_CLOSE | O | CD tray close output. |
| 78 | I-CDTSW | I | CD tray switch A/D input. |
| 79 | I-RDS_SIG/I-CD_SIG | I/O | RDS tunning level A/D input/CD music level input. |
| 80 | O-COIN | I | Command to CD DSP output. |

IC, LA9241ML

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | FIN2 | I | Connects to the pickup's photo diode; adding this pin to pin FIN1 generates RF signal, and subtracting it generates FE signal. |
| 2 | FIN1 | I | Connects to the pickup's photo diode. |
| 3 | E | I | Connects to the pickup's photo diode; subtracting this pin from pin F generates TE signal. |
| 4 | F | I | Connects to the pickup's photo diode. |
| 5 | TB | I | Input for DC component of TE signal. |
| 6 | TE– | I | Connects to the resistor between this pin and TE pin for setting the gain of TE signal. |
| 7 | TE | O | Output for TE signal. |
| 8 | TESI | I | Input for TES (Track Error Sense) comparator, TE signal is band-passed and inputted. |
| 9 | SCI | I | Input for shock detection. |
| 10 | TH | I | For setting tracking gain time constant. |
| 11 | TA | O | TA amplifier output pin. |
| 12 | TD– | I | For constructing tracking phase compensation constant between TD and VR pins. |
| 13 | TD | O | For setting tracking phase compensation. |
| 14 | JP | I | For setting the amplifier of tracking jump signal (kick pulse). |
| 15 | TO | O | Output for tracking control signal. |
| 16 | FD | O | Output for focusing control signal. |
| 17 | FD– | I | For constructing focusing phase compensation constant between FD and FA pins. |
| 18 | FA | O | For constructing focusing phase compensation constant between FD– and FA– pins. |
| 19 | FA– | I | For constructing focusing phase compensation constant between FA and FE pins. |
| 20 | FE | O | Output for FE signal. |
| 21 | FE– | I | Connects to the gain-setting resistor of FE signal between this pin and FE pin. |
| 22 | A-GND | – | GND for analog signals. |
| 23 | NC | – | Not connected. |
| 24 | SP | O | Single end output of CV+ and CV– pin input signal. |
| 25 | SPG | I | Connects to the gain-setting resistor during spindle 12cm mode. |
| 26 | SP– | I | Connects to spindle phase compensation constant together with SPD pin. |
| 27 | SPD | O | Output for spindle control signal. |
| 28 | SLEQ | I | Connects to sled phase compensation constant. |
| 29 | SLD | O | Output for sled control signal. |
| 30 | SL– | I | Input for sled-sending signal from microcontroller. |
| 31 | SL+ | I | Input for sled-sending signal. |
| 32 | JP– | I | Input for tracking-jump signal from DSP. |
| 33 | JP+ | | |
| 34 | TGL | I | Input for tracking gain control signal from DSP; gain is low if TGL = "H". |
| 35 | TOFF | I | Input for tracking off control signal from DSP; off if TOFF = "H". |
| 36 | TES | O | Outputs TES signal to DSP. |
| 37 | HFL | O | HIGH FREQUENCY LEVEL; used to determine whether the main beam is on a pit or on a mirror. |
| 38 | SLOF | I | Input for sled servo off control. |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 39 | CV– | I | Input for CLV error signal from DSP. |
| 40 | CV+ | | |
| 41 | RFSM | O | Output for RF. |
| 42 | RFS– | O | For setting RF gain and 3T compensation constant together with RFSM. |
| 43 | SLC | O | SLICE LEVEL CONTROL; output for controlling the data slice level of DSP with RF waveform. |
| 44 | SLI | I | Input for controlling the data slice level of DSP. |
| 45 | D-GND | – | GND for digital system. |
| 46 | FSC | O | Output pin for focus search smoothing capacitor. |
| 47 | TBC | I | (Tracking Balance Control) EF balance variable range setting pin. |
| 48 | NC | – | Not connected. |
| 49 | DEF | O | Output for disk defect detection. |
| 50 | CLK | I | Standard clock input; DSP's 4.23MHz is inputted. |
| 51 | CL | I | Clock input for microcontroller command. |
| 52 | DAT | I | Data input for microcontroller command. |
| 53 | CE | I | Chip-enable input for microcontroller command. |
| 54 | DRF | O | Detect RF; output for RF level detection. |
| 55 | FSS | I | (Focus Search Mode) = search/+search against reference voltage switching pin. (Not used) |
| 56 | VCC2 | – | VCC pin for servo and digital systems. |
| 57 | REFI | I | For connecting pass capacitor to reference voltage. |
| 58 | VR | O | Reference voltage output. |
| 59 | LF2 | – | For setting disk defect-detection time constant. |
| 60 | PHI | – | Connects to capacitor for RF signal peak hold. |
| 61 | BHI | – | Connects to capacitor for RF signal bottom hold. |
| 62 | LDD | O | Output for APC circuit. |
| 63 | LDS | I | Input for APC circuit. |
| 64 | VCC1 | – | VCC pin for RF system. |

IC, LC78622ED

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | DEFI | I | Defect detection signal (DEF) input. |
| 2 | TAI | I | Test input. A pull-down resistor is built in. Must be connected to 0V. |
| 3 | PDO | O | External VCO control phase comparator output. |
| 4 | VVSS | – | Internal VCO ground. Must be connected to 0V. |
| 5 | ISET | O | PDO output current adjustment resistor connection. |
| 6 | VVDD | – | Internal VCO power supply. |
| 7 | FR | – | VCO frequency range adjustment. |
| 8 | VSS | – | Digital system ground. Must be connected to 0V. |
| 9 | EFMO | O | Slice level control; EFM signal output. |
| 10 | EFMIN | I | Slice level control; EFM signal input. |
| 11 | T2 | I | Test input. A pull-down resistor is built in. Must be connected to 0V. |
| 12 | CLV+ | O | Disc motor control output.<br>Three-value ouput is also possible when specified by microprocessor command. |
| 13 | CLV– | | |
| 14 | V/$\overline{P}$ | O | Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control. |
| 15 | HFL | I | Track detection signal input. This is a Schmitt input. |
| 16 | TES | I | Tracking error signal input. This is a Schmitt input. |
| 17 | TOFF | O | Tracking off output. |
| 18 | TGL | O | Tracking gain switching output. Increase the gain when low. |
| 19 | JP+ | O | Track jump output.<br>Three-value output is also possible when specified by microprocessor command. |
| 20 | JP– | | |
| 21 | PCK | O | EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used) |
| 22 | FSEQ | O | Synchronization signal detection ouput. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used) |
| 23 | VDD | – | Digital system power supply. |
| 24 | SL+ | O | Serial data command sled signal output terminal from microprocessor. |
| 25 | SL– | | |
| 26 | NC | – | Not used. |
| 27 | PU IN | I | CD pickup inside limit switch. |
| 28 | NC | – | Not used. |
| 29 | EMPH | O | De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used) |
| 30 | C2F | O | C2 flag output. (Not used) |
| 31 | DOUT | O | Digital output (EIAJ format). |
| 32 | T3 | I | Test input. A pull-down resistor is built in. Must be connected to 0V. |
| 33 | T4 | | |
| 34 | NC | – | Unused. Must be left open. |
| 35 | MUTEL | O | Left channel one-bit D/A converter mute output. |
| 36 | LVDD | – | Left channel one-bit D/A converter power supply. |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 37 | LCHO | O | Left channel one-bit D/A converter output. |
| 38 | LVSS | – | Left channel one-bit D/A converter ground. Must be connected to 0V. |
| 39 | RVSS | – | Right channel one-bit D/A converter ground. Must be connected to 0V. |
| 40 | RCHO | O | Right channel one-bit D/A converter output. |
| 41 | RVDD | – | Right channel one-bit D/A converter power supply. |
| 42 | MUTER | O | Right channel one-bit D/A converter mute ouput. |
| 43 | XVDD | – | Crystal oscillator power supply. |
| 44 | XOUT | O | Connections for a 16.934MHz crystal oscillator element. |
| 45 | XIN | I | |
| 46 | XVSS | – | Crystal oscillator ground. Must be connected to 0V. |
| 47 | SBSY | O | Subcode block synchronization signal output. (Not used) |
| 48 | EFLG | O | C1, C2 single and double error correction monitor pin. (Not used) |
| 49 | PW | O | Subcode P, Q, R, S, T, U, V and W output. (Not used) |
| 50 | SFSY | O | Subcode frame synchronization signal output. This signal falls when the subcode are in the standby state. (Not used) |
| 51 | SBCK | I | Subcode readout clock input. This is a Schmitt input.<br>(Must be connected to 0V when unused) |
| 52 | FSX | O | Output for the 7.35 kHz synchronization signal divided from the crystal oscillator.<br>(Not used) |
| 53 | WRQ | O | Subcode Q output standby output. |
| 54 | RWC | I | Readwrite control input. This is a Schmitt input. |
| 55 | SQOUT | O | Subcode Q output. |
| 56 | COIN | I | Command input from the control microprocessor. |
| 57 | $\overline{\text{CQCK}}$ | I | Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input. This is a Schmitt input. |
| 58 | $\overline{\text{RES}}$ | I | Chip reset pin. This pin must be set low briefly after power is first applied. |
| 59 | T11 | O | Test output. Leave open. (Normally outputs a low level). (Not used) |
| 60 | 16M | O | 16.9344 MHz output. (Not used) |
| 61 | 4.2M | O | 4.2336 MHz output. |
| 62 | T5 | I | Test input. A pull-down resistor is built in. Must be connected to 0V. |
| 63 | $\overline{\text{CS}}$ | I | Chip select input. A pull-down resistor is built in. Must be connected to 0V if not controlled. |
| 64 | T1 | I | Test input. No pull-down resistor. Must be connected to 0V. |

IC, LC72131D

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>X-IN</td><td>I</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>X-OUT</td><td>O</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (M38B57MCH-P239FP)<br>when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CL</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (M38B57MCH-P239FP ).</td></tr>
<tr><td>7</td><td>T-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / $\overline{\text{SW}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$ / SW</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IF-IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>AM-IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-IN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>A-IN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>A-OUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

# ADJUSTMENT

< TUNER SECTION >(EZ,K)

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L981 (1/3)
   Method : Set to MW 999kHz and adjust L981 (1/3) so that the test point becomes maximum.

4. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.
   Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L772 450kHz

7. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.

8. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBμV.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3,TP4 (DC balance)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

10. Output Level Check
    <MW>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 74dBμV
    Method : Set to MW 999kHz and check that the test point is 130mV ± 3dB.

    <FM>
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is 520mV ± 3dB.

11. FM Separation Check
    Settings : • Test point : TP8 (Lch), TP9 (Rch)
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

< TUNER SECTION >(HR,HT)

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1(VT)
   Method : Set to AM 1602kHz and check that the test point is less than 8.0V. Then set to AM 531kHz and check that the test point is more than 0.6V.

3. AM Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L981(1/3) ..... 999kHz
   Method : Adjust L981 (1/3) so that the output becomes maximum.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP6(Lch), TP7(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L772 ..... 450kHz
   Method : Adjust L772 so that the output becomes maximum.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP6(Lch), TP7(Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%

< DECK SECTION >

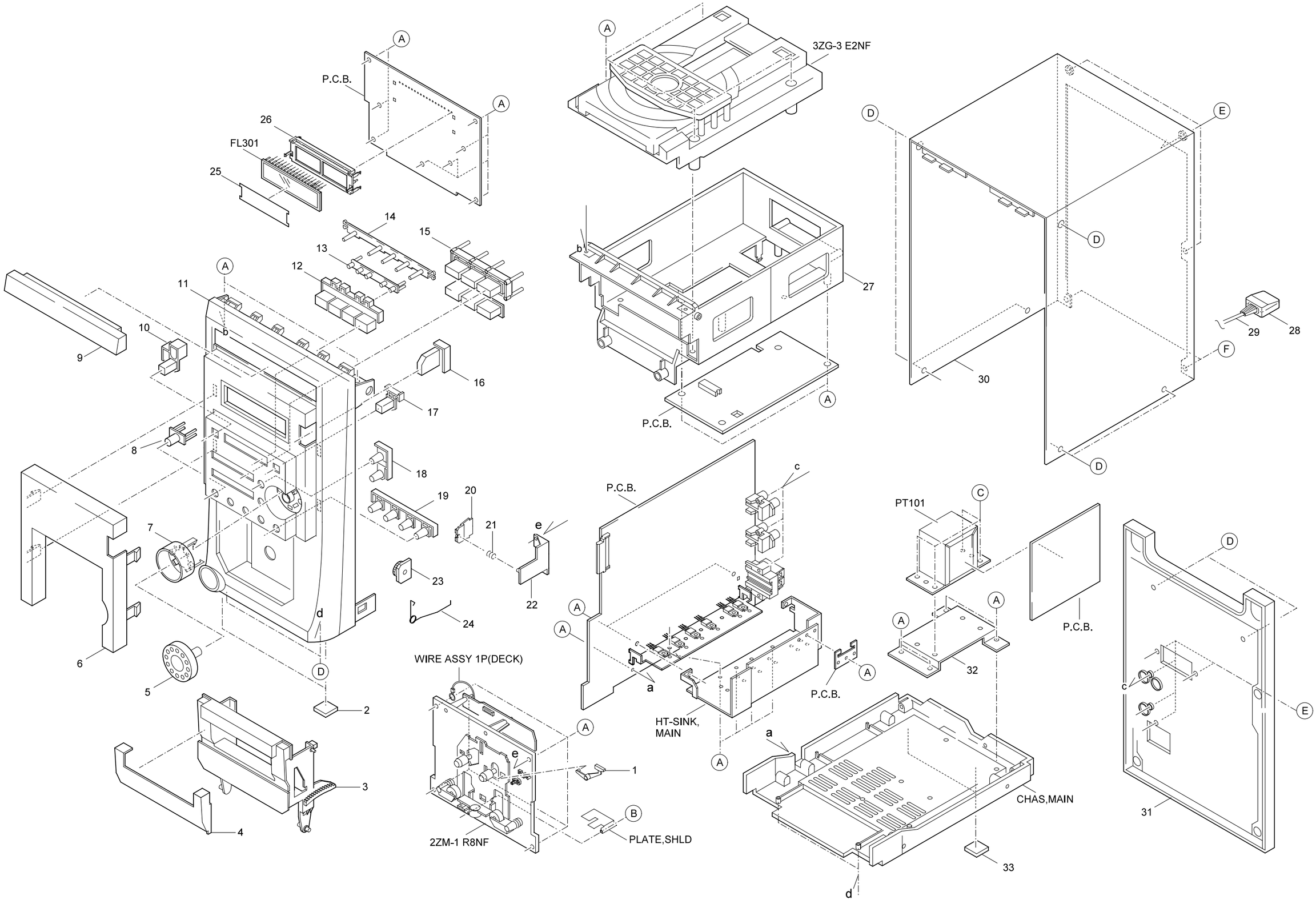
1. Tape Speed Adjustment
   Settings : • Test tape : TTA–100
   • Test point : SP–OUT 2V
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 for 3000Hz ± 5Hz (FWD) and FWD PLAY speed ± 45Hz (REV).

2. Head Azimuth Adjustment
   Settings : • Test tape : TTA–300
   • Test point : SP–OUT 2V
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

3. PB Frequency Response Check
   Settings : • Test tape : TTA–320
   • Test point : SP–OUT 2V
   Method : Play back the 315Hz and 10kHz signals of the test tape and check that the 10kHz signal with respect to that of the 315Hz signal is 0dB ± 3dB.

4. REC/PB Frequency Response Check
   Settings : • Test tape : TTA–602
   • Test point : SP–OUT 2V
   Method : Input a –20VU signal to the AUX terminal. Record the 1kHz and 10kHz signals on the test tape and play back them. Check that the difference between the record level and the play back level at 1kHz and 10kHz signal is 0dB to ± 3dB.

MECHANICAL EXPLODED VIEW 1 / 1



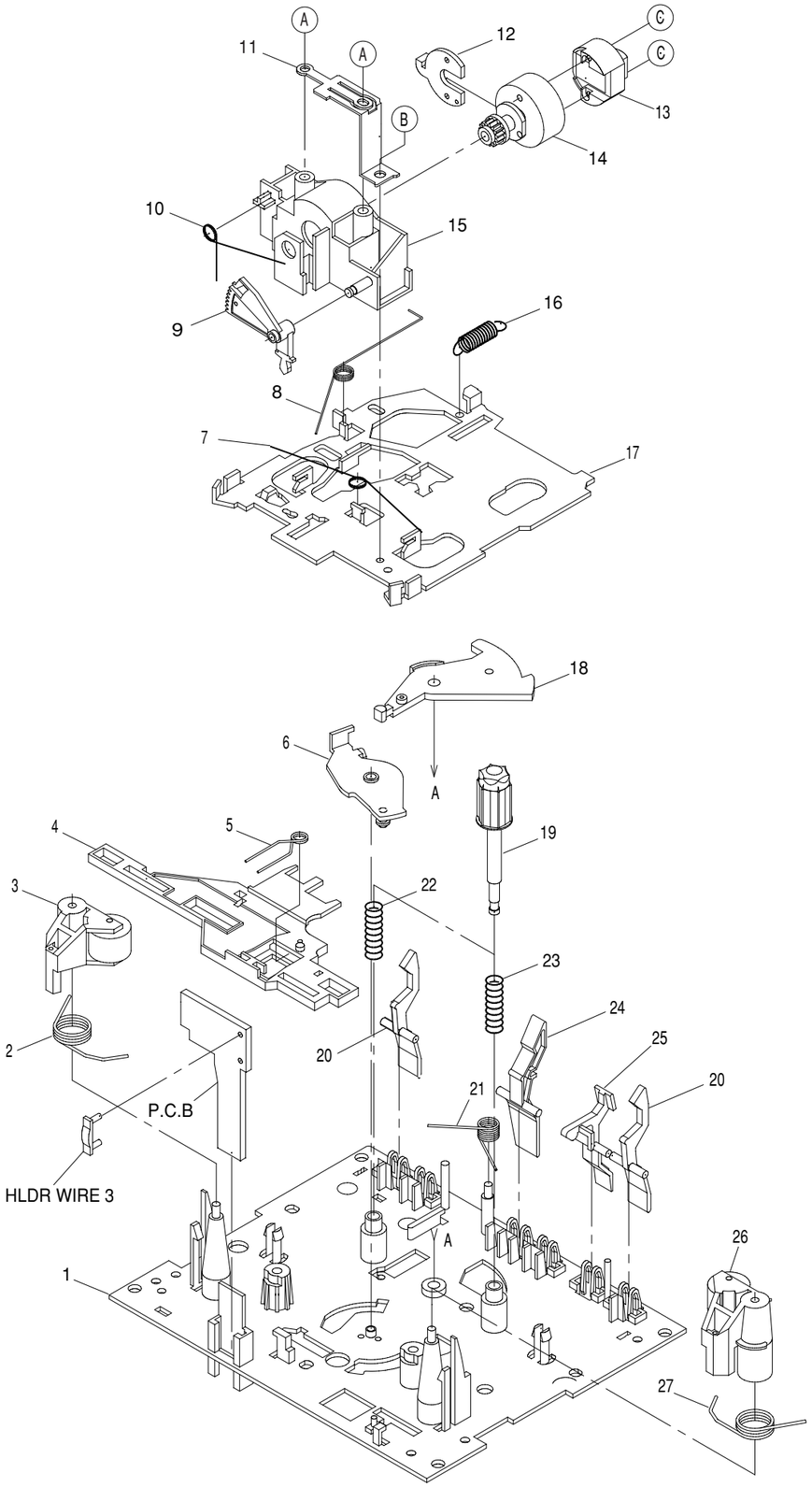
# MECHANICAL PARTS LIST 1 / 1

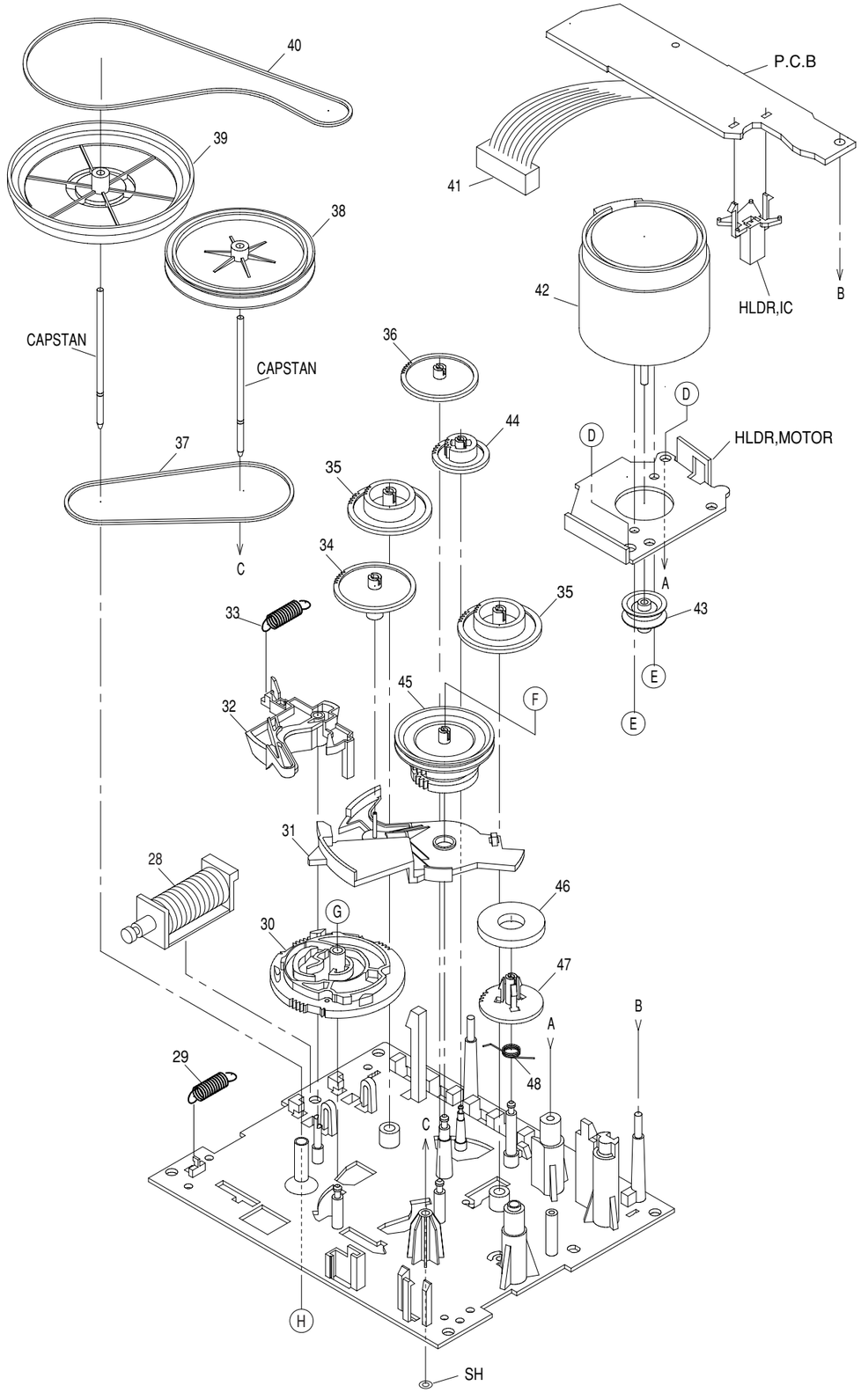
| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 82-ZM1-264-010 | | LVR,EJECT R |
| 2 | 88-CL4-215-010 | | CUSH,FOOT FR |
| 3 | 8A-CL9-046-010 | | BOX,CASS U<150K> |
| 3 | 8A-CL9-047-010 | | BOX,CASS H<130HR,130HT> |
| 3 | 8A-CL9-048-010 | | BOX,CASS EZ<151EZ> |
| 3 | 8A-CL9-049-010 | | BOX,CASS M152<152EZ> |
| 3 | 8A-CLK-049-010 | | BOX,CASS EZ100<100EZ> |
| 3 | 8A-CLK-048-010 | | BOX,CASS EZ121<121EZ> |
| 3 | 8A-CLK-046-010 | | BOX,CASS U<120K> |
| 4 | 8A-CL9-052-010 | | WINDOW,CASS<100EZ,120K,121EZ,152EZ> |
| 4 | 8A-CL9-054-010 | | WINDOW,CASS<130HR,130HT,150K,151EZ> |
| 5 | 8A-CL9-080-010 | | KNOB,RTRY VOLUME |
| 6 | 8A-CL9-053-010 | | WINDOW,DISPLAY EZ<121EZ,151EZ> |
| 6 | 8A-CL9-051-010 | | WINDOW,DISPLAY U<120K,100EZ> |
| 6 | 8A-CL9-055-010 | | WINDOW,DISP SK R<152EZ> |
| 6 | 8A-CL9-056-010 | | WINDOW,DISP SG<130HR,130HT,150K> |
| 7 | 8A-CL9-077-010 | | RING,VOLUME |
| 8 | 8A-CL9-088-010 | | LENS,REMOTE-C<100EZ,120K,121EZ> |
| 8 | 8A-CL9-088-110 | | LENS,REMOTE-C<130HR,130HT,150K,151EZ,152EZ> |
| 9 | 8A-CL9-030-010 | | PANEL,TRAY ASSY<100EZ,120K,121EZ,152EZ> |
| 9 | 8A-CL9-033-010 | | PANEL,TRAY SG A<130HR,130HT,150K,151EZ> |
| 10 | 8A-CL9-062-010 | | KEY,POWER |
| 11 | 8A-CL9-002-010 | | CABI,FRONT EZ<121EZ> |
| 11 | 8A-CL9-001-010 | | CABI,FRONT U<120K,100EZ> |
| 11 | 8A-CL9-002-110 | | CABI,FRONT SI-MB R<151EZ> |
| 11 | 8A-CL9-003-010 | | CABI,FRONT SI-MB<130HR> |
| 11 | 8A-CL9-003-210 | | CABI,FRONT SI-MB<130HT> |
| 11 | 8A-CL9-004-110 | | CABI,FRONT SI-MS R<152EZ> |
| 12 | 8A-CL9-063-010 | | KEY,FUNC ASSY |
| 13 | 8A-CL9-206-010 | | GUIDE,LED-FUNC |
| 14 | 8A-CL9-085-010 | | REFLECTOR,LED-FUNC |
| 15 | 8A-CL9-066-010 | | KEY,CONTROL |
| 16 | 8A-CL9-065-010 | | KEY,OPEN |
| 17 | 8A-CL9-067-010 | | KEY,Q-SOUND |
| 18 | 8A-CL9-068-010 | | KEY,JOGMODE |
| 19 | 8A-CL9-069-010 | | KEY,DEMO |
| 20 | 82-NF5-229-010 | | PLATE,LOCK |
| 21 | 86-NF9-224-010 | | SPR-C,LOCK |
| 22 | 87-NF4-217-110 | | HLDR,LOCK 2 |
| 23 | 87-NF8-220-010 | | DMPR,150 |
| 24 | 88-CL4-220-010 | | SPR-T,CASS |
| 25 | 8A-CL9-095-010 | | PLATE,FL |
| 26 | 82-NF7-210-110 | | GUIDE,FL(*) |
| 27 | 8A-CL9-202-010 | | HLDR,CD |
| ⚠ 28 | 87-099-811-010 | | PLUG,ADPTR CONV(K)<120K,150K> |
| ⚠ 29 | 87-A80-148-010 | | AC CORD ASSY,E BLK<EXCEPT K> |
| ⚠ 29 | 87-A80-157-010 | | AC CORD ASSY,E BLK C<K> |
| 30 | 8A-CL9-026-010 | | CABI,TOP |
| 31 | 8A-CL9-013-010 | | PANEL,REAR EZS<151EZ. |
| 31 | 8A-CL9-016-010 | | PANEL,REAR KSC<150K> |
| 31 | 8A-CL9-017-010 | | PANEL,REAR EZ152<152EZ> |
| 31 | 8A-CL9-018-010 | | PANEL,REAR HTSF<130HT> |
| 31 | 8A-CL9-019-010 | | PANEL,REAR HRSF<130HR> |
| 31 | 8A-CLK-016-010 | | PANEL,REAR EZ100<100EZ> |
| 31 | 8A-CLK-015-010 | | PANEL,REAR EZ121<121EZ> |
| 31 | 8A-CLK-013-010 | | PANEL,REAR KSC<120K> |
| 32 | 8A-CL9-211-010 | | HLDR,TRANS<100EZ,120K,121EZ> |
| 32 | 8A-CL9-211-110 | | HLDR,TRANS<130HR,130HT,150K,151,152EZ> |
| 33 | 88-CL4-216-010 | | CUSH,FOOT REAR |
| A | 87-067-703-010 | | TAPPING SCREW, BVT2+3-10 |
| B | 87-571-032-410 | | VIT+2-3 |
| C | 87-581-170-410 | | UIT+4-8 |
| D | 87-B10-231-010 | | QT1+3-12 SILVER CR |
| E | 87-B10-230-010 | | BVT2+3-10 W/O SLOT SILVER CR |
| F | 87-B10-250-010 | | BVT2+3-12 W/O SLOT CR SILVER |

## COLOR NAME TABLE

| Basic color symbol | Color | Basic color symbol | Color | Basic color symbol | Color |
|---|---|---|---|---|---|
| B | Black | C | Cream | D | Orange |
| G | Green | H | Gray | L | Blue |
| LT | Transparent Blue | N | Gold | P | Pink |
| R | Red | S | Silver | ST | Titan Silver |
| T | Brown | V | Violet | W | White |
| WT | Transparent White | Y | Yellow | YT | Transparent Yellow |
| LM | Metallic Blue | LL | Light Blue | GT | Transparent Green |
| LD | Dark Blue | DT | Transparent Orange | GM | Metallic Green |
| YM | Metallic Yellow | DM | Metallic Orange | PT | Transparent Pink |

TAPE MECHANISM EXPLODED VIEW 1 / 1

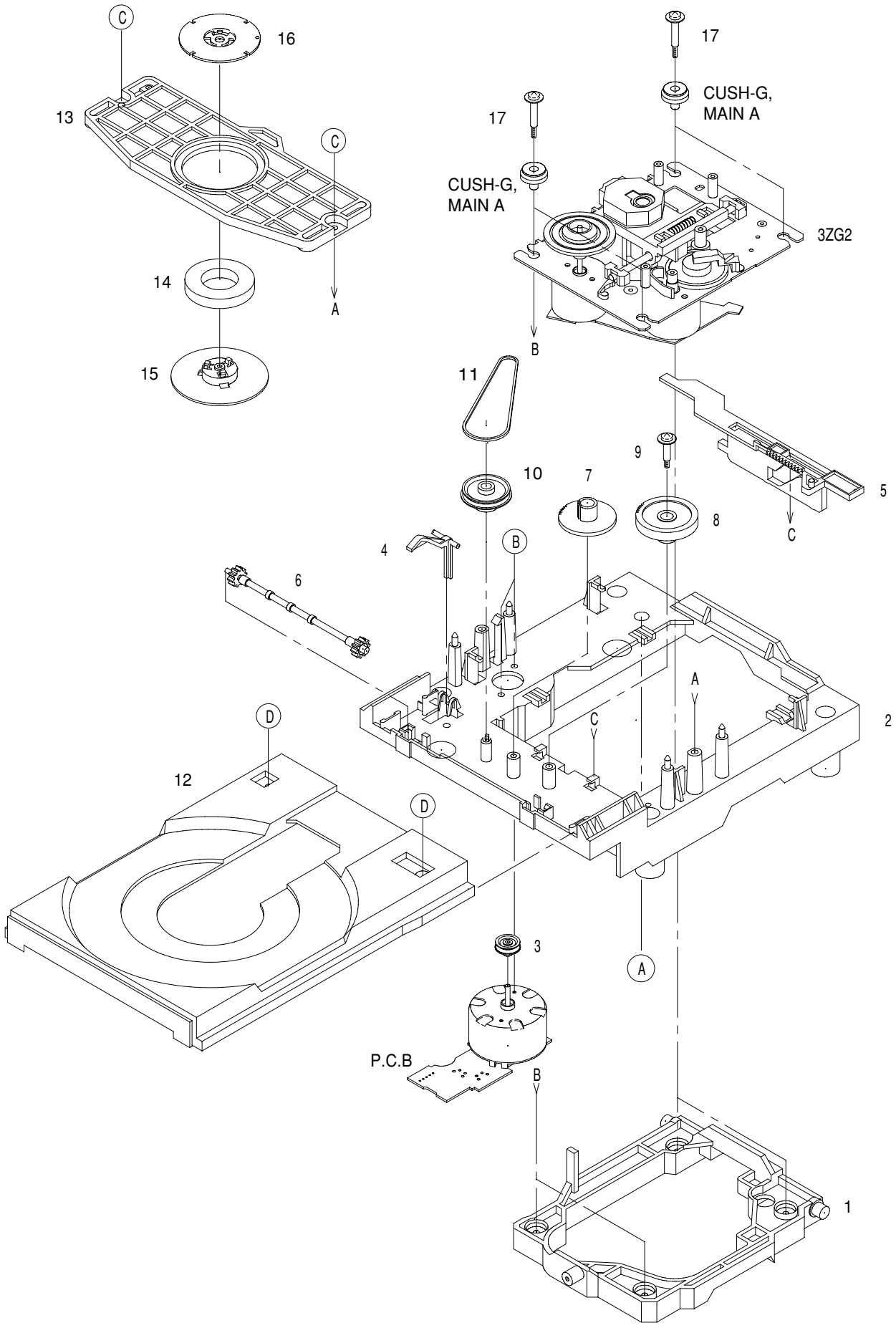


# TAPE MECHANISM PARTS LIST 1 / 1

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 82-ZM1-327-310 | | CHAS ASSY,RM |
| 2 | 82-ZM1-258-210 | | SPR-T,PINCH L |
| 3 | 82-ZM1-341-210 | | LVR ASSY,PINCH L2 |
| 4 | 82-ZM1-266-310 | | LVR,DIR |
| 5 | 82-ZM1-214-010 | | SPR-T,DIR |
| 6 | 82-ZM1-333-210 | | PLATE,LINK2 |
| 7 | 82-ZM1-269-210 | | SPR-T,BRG |
| 8 | 82-ZM1-219-110 | | SPR-T,LINK |
| 9 | 82-ZM1-210-110 | | GEAR,H T |
| 10 | 82-ZM3-353-010 | | SPR-T,HEAD 2 |
| 11 | 82-ZM1-298-010 | | SPR-P EARTH |
| 12 | 82-ZM1-314-110 | | PLATE,HEAD |
| 13 | 87-046-399-110 | | HEAD,RPH YK56R-BS411 |
| 14 | 82-ZM1-208-310 | | HLDR,HEAD |
| 15 | 82-ZM1-207-910 | | GUIDE,TAPE |
| 16 | 82-ZM1-218-010 | | SPR-E,HB |
| 17 | 82-ZM1-206-910 | | CHAS,HEAD |
| 18 | 82-ZM1-222-310 | | LVR,PLAY(*) |
| 19 | 82-ZM1-217-410 | | REEL TABLE |
| 20 | 82-ZM1-240-110 | | LVR,REC(*) |
| 21 | 82-ZM1-257-010 | | SPR-T,CAS |
| 22 | 82-ZM1-285-410 | | SPR-C,BT L |
| 23 | 82-ZM1-244-510 | | SPR-C,BT |
| 24 | 82-ZM1-242-010 | | LVR,CAS |
| 25 | 82-ZM1-243-010 | | LVR,STOP |
| 26 | 82-ZM1-344-210 | | LVR ASSY,PINCH R2 |
| 27 | 82-ZM1-259-210 | | SPR-T,PINCH R |
| 28 | 82-ZM3-627-010 | | SOL ASSY,27 SO |
| 29 | 82-ZM1-255-310 | | SPR-E,LVR DIR |
| 30 | 82-ZM1-221-310 | | GEAR,CAM(*) |
| 31 | 82-ZM1-224-410 | | LVR,FR |
| 32 | 82-ZM1-227-310 | | LVR,TRIG |
| 33 | 82-ZM1-305-210 | | SPR-E,TRIG 2 |
| 34 | 82-ZM1-225-210 | | GEAR,FR |
| 35 | 82-ZM1-216-510 | | GEAR,REEL |
| 36 | 82-ZM1-226-010 | | GEAR,REW |
| 37 | 82-ZM1-338-110 | | BELT,FR 4 |
| 38 | 82-ZM1-348-110 | | FLY-WHL,L W |
| 39 | 82-ZM1-349-110 | | FLY-WHL,R W |
| 40 | 82-ZM1-354-010 | | BELT,SBU MAIN2 EPDM |
| 41 | 87-009-352-010 | | CONN,9P PH H |
| 42 | 87-045-347-010 | | MOT,SHU2L 70 |
| 43 | 82-ZM1-247-210 | | PULLEY,MOTOR |
| 44 | 82-ZM1-223-010 | | GEAR,PLAY |
| 45 | 82-ZM3-333-310 | | SLIP DISK ASSY 2 |
| 46 | 82-ZM3-616-010 | | RING MAGNET 4 |
| 47 | 82-ZM1-220-210 | | GEAR,IDLER |
| 48 | 82-ZM1-322-010 | | SPR-T,FR 60 |
| A | 82-ZM1-283-310 | | S-SCREW,AZIMUTH |
| B | 82-ZM1-315-010 | | S-SCREW GUIDE TAPE |
| C | 80-ZM6-207-010 | | V+1.6-7 |
| D | 87-741-073-410 | | UT2+2.6-6 GLD |
| E | 87-251-070-410 | | U+2.6-3 |
| F | 82-ZM3-334-010 | | PW 2.16-6-0.4 |
| G | 87-B10-008-010 | | W-P,2.08-8-0.4-SLIP |
| H | 80-ZM6-243-010 | | SH 1.75-3.6-0.5 SLT |

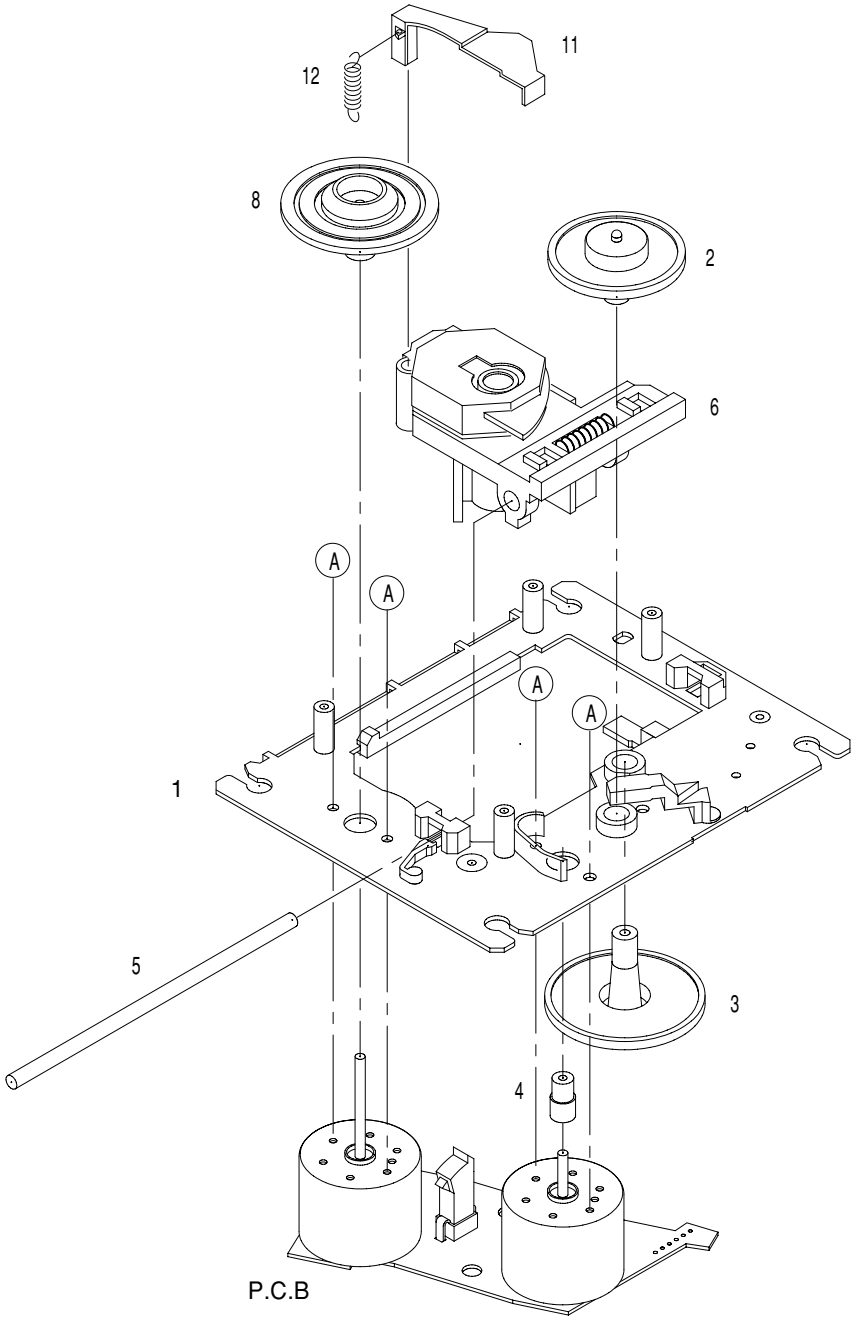
# CD MECHANISM EXPLODED VIEW 1 / 2



# CD MECHANISM PARTS LIST 1 / 2

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 83-ZG3-224-310 | | HLDR,M2 |
| 2 | 83-ZG3-228-610 | | CHAS,L6 |
| 3 | 83-ZG3-208-010 | | PULLEY,MOTOR |
| 4 | 83-ZG3-213-010 | | LVR,SW |
| 5 | 83-ZG3-209-610 | | CAM,SLIDE |
| 6 | 83-ZG3-207-010 | | GEAR,TRAY |
| 7 | 83-ZG3-204-210 | | GEAR,C |
| 8 | 83-ZG3-205-010 | | GEAR,D |
| 9 | 83-ZG3-217-010 | | S-SCREW,GEAR D |
| 10 | 83-ZG3-220-210 | | GEAR,PULLEY 2 |
| 11 | 83-ZG3-214-010 | | BELT,L |
| 12 | 83-ZG3-229-410 | | TRAY,CD 2 |
| 13 | 83-ZG3-210-110 | | HLDR,CHUCK |
| 14 | 83-ZG3-602-010 | | RING,MAG |
| 15 | 83-ZG3-212-010 | | CAP,DISC |
| 16 | 83-ZG3-211-010 | | PLATE,DISC |
| 17 | 81-ZG1-254-010 | | S-SCEW,MECH HLDR |
| A | 87-067-945-110 | | VFT2+3-12(F10) |
| B | 87-251-071-110 | | U+2.6-4 |
| C | 87-512-074-210 | | VFT2+2.6-8 |
| D | 87-352-075-210 | | VT2+2.6-10 |

## CD MECHANISM EXPLODED VIEW 2 / 2




## CD MECHANISM PARTS LIST 2 / 2

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 83-ZG2-243-210 | | CHAS ASSY,SHT |
| 2 | 83-ZG2-235-010 | | GEAR,A3 |
| 3 | 83-ZG2-205-210 | | GEAR,B |
| 4 | 83-ZG2-236-010 | | GEAR MOTOR 3 |
| 5 | 83-ZG2-253-010 | | SHAFT,SLIDE 5 |
| 6 | 87-A90-836-010 | | PICKUP,KSS-213F |
| 8 | 83-ZG2-227-210 | | TURN TABLE,C1 |
| 11 | 83-ZG2-245-410 | | LEVER,SHUTTER |
| 12 | 83-ZG2-250-110 | | SPR-E,SHT 2 |
| A | 87-261-032-210 | | SCREW V+2-3 |

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